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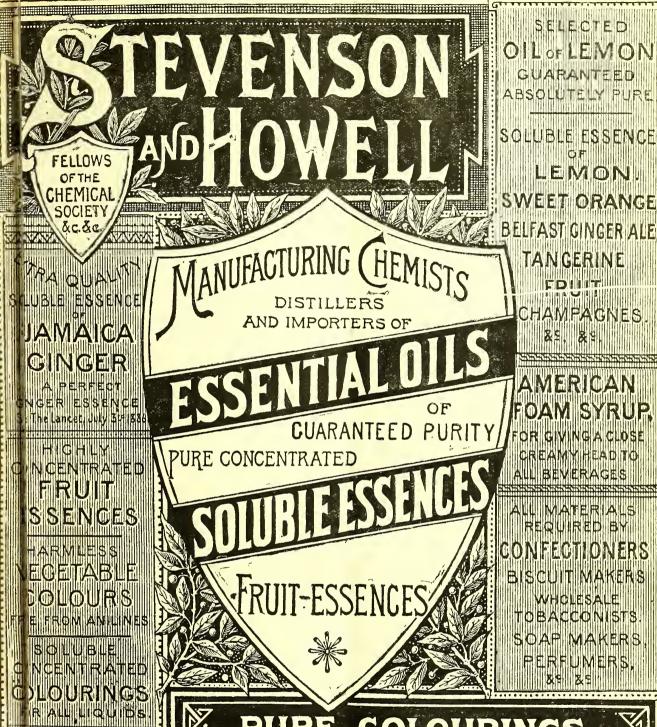
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WINTER COURSES.

Zoology, 9 a.m.—Professor Young, M.D.

Clinical Medicine, 9 a.m.—Professor M'Call Anderson, M.D., and Professor Gairdner, M.D., LL.D.

Clinical Surgery, 9 a.m.—Professor George Buchanan, M.A., M.D., and Professor Sir George H. B. Macleod, M.D.

Chemistry, 10 a.m.; and Chemical Laboratory, 10 a.m. to 4 p.m.—Professor Ferguson, M.A., LL.D.

Anatomy: Senior, 11 a.m.; Junior, 2 p.m.; and Practical Anatomy, 9 a.m. to 4 p.m.—Professor Cleland, M.D., D.Sc., LL.D., F.R.S., assisted by J. Yule Mackay, M.D., and other Demonstrators.

Practice of Medicine, 11 a.m.—Professor Gairdner, M.D.,

Materia Medica, 12 noon, and Pharmaceutical Laboratory. -Professor Charteris, M.D., and A. Napier, M.D.

Institutes of Medicine, 12 noon, and Physiological Laboratory.—Professor M'Kendrick, M.D., LL.D., F.R.S., assisted by J. M'Gregor Robertson, M.A., M.B., and William Snodgrass, M.A., M.B., the Muirhead Demonstrator.

Surgery, 1 p.m.—Professor Sir George H. B. Macleod, M.D. Midwifery, 2 p.m.—Professor Leishman, M.D.

SUMMER SESSION, 1889
During the Summer Session, which opens early in May, the Courses of Botany (Professor Bower, M.A. Cantab., D.Sc, F.L.S.), Practical Chemistry, Medical Jurisprudence (Professor Simpson, M.A. Cantab., M.D.), Public Health (Professor Simpson), and Clinical Medicine and Clinical Surgery are given. There are also Courses of Anatomy (Lectures on Embryology), Practical Anatomy, Zoology, Practical Zoology, Vegetable Histology, and Practical Botany, Practical Physiology (including Histology), Practical Materia Medica, Practice of Medicine, Practical Pathological Histology, Operative Surgery, and Lectures on Diseases of Women.

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- To Wholesale Pill-makers. -- For sale, 5-grain gun-metəl cylindrical machine, chts 60, nearly new; worked by treadle or steam. Saunders, 149 Duke Street, Liverpool.
- Shilling feeding bottles, with china caps, black fittings, two brushes, in box, 4s, 6d. dozen; fitted when ordered; sample six stamps.

 J. S. Simoock, 311 Goswell Road.
- Eleven pairs nickel-plated tooth-forceps in leather pouch, good as new, 50s.; Hurris's "Principles and Practice of Dentistry," cost 32s. 6d., 20s., carriage paid. West, Ashdowne Road, Worthing.
- Winter's e'ectric plate machine, galvanic apparatus, batteries, large quantity obemical thermometers, 12 dez Twaddle's and other hydrometers, glass retorts, measures, funnelsmixed variety chemical appliances; all perfectly new; 30 per cent. off cost. Harrop, Middleton, Lanes.
- Dr. Silver's metallic stopping for decayed teeth, 1d. packets, 3 doz. on showy card. 1s. 6d. per card; fine carmine, 2s. oz.; saffron, 3s. per oz.; finest Tonquin grain mnsk, 103. per oz, sample 10 grains, 2s. 6d.; all post free for stamps. J. Vine, Chemist, 32 Ridinghouse Street, London, W.

WANTED.

- The Chemist and Druggist, March 17, 1888. 274/36:
 One-grain pill-machine. State price to Provost,
 Chemist, Huntingdon.
- Formu'æ for making soluble essences for aërated waters; send price and list. Address A. M., Post Office, Aberdeen, N.B.
- Good microscope, with objectives and apparatus complete; must be cheap. Sutcliffe, 223 Rochdale Road, Oldham.
- 5th edition Martindale's "Extra Pharmacopœia," in good condition; state price. Grimble & Kent, Boston.
- Part or entire fittings, with or without stock; must be modern and in good order. Schedule and full particulars to "Rex," 20 Junction Road, N.
- Copies of the Pharmaceutical Journal of September 3, 10, 17, 24, October 8, 15, 22, 29, November 5, December 10, 24, 31, 1887; state price for lot to 30 88.

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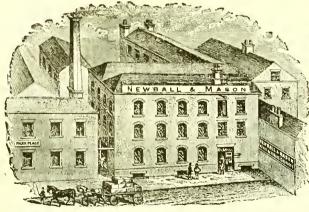
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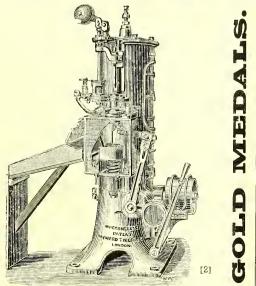
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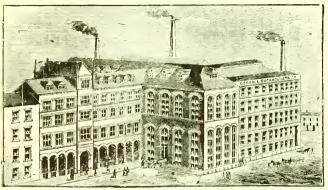
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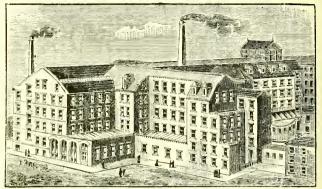
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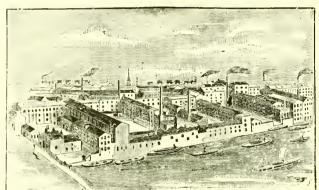


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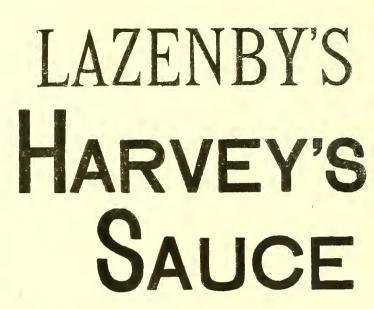
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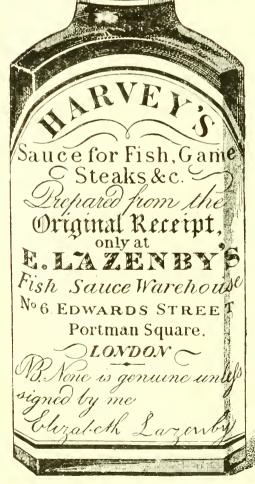


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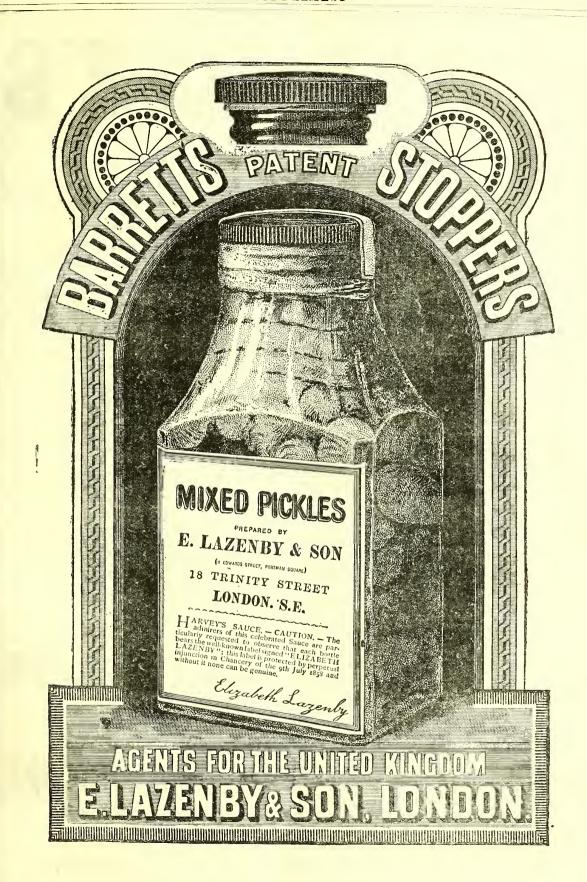
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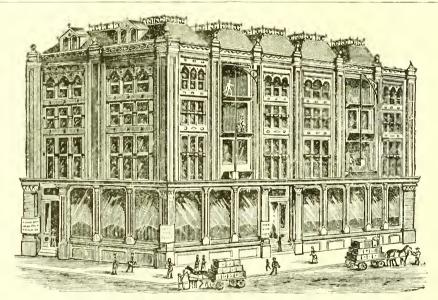


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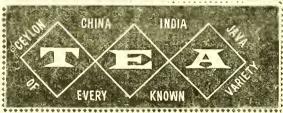
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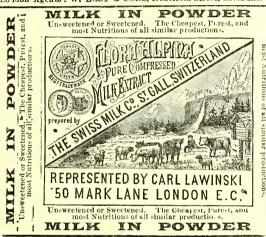
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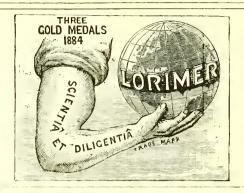
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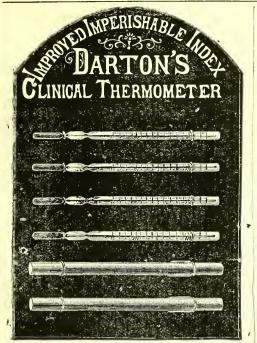
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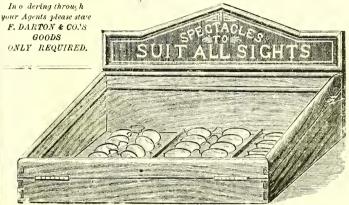
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POST-CARD COMPETITION.—No. 8.

W invite post-card communications on any of the hundred stjects named on pages 158, 159, and 160 of The Chemist A) Druggist, August 4, and for the best we offer the wal prize of one guinea. Competitors may write their esys on one, two, or three post-cards. Subscribers or thremployés only are eligible to compete, and all essays m treach us before August 31.

PARLIAMENTARY NEWS.

HE IRISH PHARMACY BILL—SECOND READING.—During thearly hours of Friday morning last (August 3), the promers of the Irish Pharmacy Bill, which has successfully adomplished its journey through the House of Lords, managl to secure a second reading in the Lower Chamber. The absence of opposition seemed strange; but apparently the night there was an armed truce. But if any hopes were en reading that the other stages would be overcome as ealy they were doomed to disappointment. Committee was appinted for the next night, and when the order was reached, M.T. M. Healy at once intimated that it would meet with strauous opposition, and many important amendments would have to be moved. This notice practically scaled the fate of the Bill, at any rate for these sittings. There may be a slint chance of pushing it through in the autumn; but the Fit Lord of the Treasury has already relegated to that sh tsersion work sufficient for two ordinary sessions, and the force the prospects of carrying to a successful issue eiter of the two Pharmacy Bills this year may be described as isnitesima!

LONDON DRUG STATISTICS.

THE following figures refer to the stocks of the principal drugs in the Port of London on July 31, 1888, and to the imports and deliveries from January 1 to July 31, as compared with the preceding year:—

Anticlo	St	Stocks Imp		orted	Del	Delivered	
Article	1888	1887	1888	1887	1888	1887	
Aloesos & pkgs ,,gourds Anise, Star chts Arrowrootcks ,, bxs & tins Balsamscks, &c. Bark, Medicinal	6,397 3,211 189 15,019 7,807 291	4,678 2,7 348 14,833 8,700 673	3,600 597 100 10,942 3,374 149	2,212 20 217 11,401 7,481 493	2,925 3,064 91 8,886 5,613 453	2,762 19 108 8,380 3,286 506	
cks & cs Bris, &cc. Boraxpkgs Calumba, Camphor, Cardamons .chts Cocc. Ind. bgs, & Cream of Tartar cks Cnbebsbgs Dragou's Blood chts Galls, China, &c. cs Trky & Prsn sks	15,556 46,733 1,841 2,353 2,634 1,000 4,959 483 11 130 64 4,468 4,703	9,686 49,356 2,553 1,544 4,274 1,132 5,591 502 11 113 123 3,037 6,005	17 819 23 922 611 988 5,288 1,966 1,977 454 13 207 114 8,144 5,978	18,918 25,611 2,156 1,051 3,625 2,627 1,786 2,44 18 277 89 3,343 4,704	15 193 129 5,386	256	
Gum— Ammoniae pkgs	154	282	8	128	84	131	
Animi & Copal pkgs Arabic, Asafœtida, Benjamin, Dumar,	5,539 15.178 412 2,007 2,767	3 939 11 050 543 1 845 4,261	6,539 17,493 257 2,147 2,429	3,607 8,869 72 1,441 2,992	5,329 13,687 295 1,697 3,111	4.610 13,029 306 1,233 3,473	
Galbannm. "Gamboge "Guaiacum "Kino "Kowrie tons Mastic pkgs Myrrh. "Golbanam "Sandarae "Tragacanth Indiarubber, E.I.	100 32 127 1.259 118 430 5,493 1.323 5,791	176 104 67 711 111 492 5,188 1,251 942	128 3 66 1,889 47 304 6,694 1 154 7,384	1 178 48 12 1,110 8 593 5,4,8 950 1,748	30 378	1 205 20 37 1,217 23 329 3,708 945 1 405	
Indiarubber, E.I. tons Madigascar, S. American, African, &c,	468 44 174 633	239 17 115 298	508 77 250 576	416 46 202 447	295 58 189 532	272 37 121 422	
Total Indigo, Bengal chts " Madras " " Kurpah "	1,325 5,632 1,028 7,172	669 6,629 742 5,372	1,411 6,989 815 8,783	1,111 7,901 805 6, 246	1,074 4,272 706 4,449	852 5,458 794 5,281	
" Mauilla Figs, &c ,, " Total East	1,715	2,085	1,199	1,497	1,109	1,290	
Indianchts Spanishsrns Ipecac. casks & bags Jalap bls Lac Dye chts Myrabolanstns Nux Vomica pkgs Oils—	15,547 3,685 51 115 6,085 9,151 413	14,228 2,514 191 174 7,605 8,355 423	17,786 5.947 296 66 5 483 861	16,449 3,749 293 59 28 6,673 238	4,097 367 102	12,823 3,154 207 39 234 6,273 494	
Anisecs Cassia, Castorcks	41 72 704 10,578 2,114 912 256 1,493 1,045 189 672 1,102	167 188 534 4,850 2,088 1,062 165 1,563 1,536 266 54) 1,062	90 128 285 9,760 2,718 1,594 147 372 790 117 918 971	110 210 395 3,726 3,192 3,181 57 1,038 814 131 941 1 978	115 158 472 6,691 2,420 1,359 934 934 9372 300 743 2,385	109 119 457 5,314 2,407 2,956 71 1,223 1,130 236 764 1,776	
Shellac, Orange chts, &c. Garnet, Button,	51,693 18,787 10,475	41,703 17,542 12,615	28,990 8,897 4,853	24,593 19,213 6,523	18,972 E,733 5.069	16,646 4 290 5,406	
Total chests Sticklae chts, &c. Gambier tns Cutch Tarmeric T	80,960 4,375 395 2,623 3,394 25	74,860 4,266 707 814 1,750	42,745 893 4,942 3,859 1,456 39	41,239 557 6 254 1,323 1,029	29,571 898 6,371 2,091 685 77	26,342 403 7,192 1,850 1,194 61	
Wax bees'bls & srns , cks & cs , cakes Wax, Japanpkg	479 1,597 3 1.349	903 1,492 3 873	218 1,463 24 1,312	543 1,637 11 454	333 1 543 875	692 1,515 928	

Metropolitan Reports.

THE FLOODS.—The Lord Mayor has accepted an offer made by the Jeyes' Disinfecting Company to apply their product in the East-end districts which have been recently flooded, and where consequently great danger of noxious effluvia exists.

ALLEGED FRAUD ON WHOLESALE DRUGGISTS.—George William Hammond (43), charged with having obtained eau de Cologne from Messrs. Hearon, Squire & Francis on a forged order, was again brought up at the Guildhall on Wednesday. He was again remanded till Thursday next.

CRICKET.—A match was played at Raynes Park on July 31 between Barclay & Sons' C.C. and the Camwal C.C. (the latter being the abbreviated title of the Chemists' Aërated and Mineral Waters Association, Limited, C.C.). Messrs. Barclay's eleven could only total 14 among them. The Camwals had reached 27 for the loss of two wickets when play was stopped.

THE WALTHAMSTOW MYSTERY.—At Walthamstow on Wednesday Mr. C. C. Lewis, the Essex coroner, resumed his inquiry as to the death of Mrs. Annie Mary French, for which William Barber, aged 39, a chemist's assistant, of Walthamstow, now stands remanded at Stratford Petty Sessions, charged with administering a certain noxious drug on July 21 last. Dr. Charles M. Tidy said he was one of the Government analysts, and on July 25 he received at the London Hospital six jars and bottles sealed. He described the contents of each bottle. No trace of chloroform odour could be detected when the bottles were first opened, nor could any chloroform be found upon detailed examination. He thought death had resulted from morphia poisoning. A murderous dose of the drug must have been taken. The deceased might have placed the bottle back in the surgery after taking the morphia. It was stated that two bottles of morphia were found in the shop. This concluded the evidence. The coroner, in summing up, said the case was more and more difficult and mysterious. He had to leave the matter in the hands of the jury. If a medical man, qualified or unqualified, took upon himself to administer medicine, and by gross negligence administered more than he ought, that would make such person guilty of manslaughter; while if an overdose were wilfully administered, he would be guilty of murder. The jury returned a verdict to the effect that Mrs. French came by her death through morphia poison; but whether taken by herself or given by another person or persons there was not sufficient evidence to show.

SELLING METHYLATED SPIRIT AS A BEVERAGE .- At Worship Street Police Court on Friday last Bernard Zeitlin, 17 Princes Street, Spitalfields, was summoned by the Excise to answer two informations—(1) for having sold methylated spirit as a beverage for consumption, contrary to the Spirits Act, 43 and 44 Vic., cap. 24, section 130, whereby he had incurred a fine of 100l.; and (2) for selling wine without being licensed for the same, contrary to the Act 6 George IV., cap. 81, whereby he had incurred a penalty of 50l. Mr. Powell prosecuted for the Inland Revenue. Defendant did not appear. According to the evidence it appeared that the Excise authorities had engaged a man to purchase some of the "brandy" and "wine." Mr. H. W. Davies analysed it and said he found the nine bottles of "brandy" submitted to him to contain methylated spirits, flavoured with aniseed and coloured. The two bottles of wine were called raisin wine. They were above the strength allowed to be sold without a licence, containing 23 9 per cent. of proof spirit. Mr. A. J. Llewellyn, a supervisor of Excise, said that on the evening of the day of the sale he had an interview with the defendant, who said that he knew nothing of the sale. Witness had arrested his son the same morning for smuggling spirits. He scarched the house, and found in the cellar an apparatus for manufacturing spirits. Mr. Powell asked what the defendant was, and the witness answered that the shop was ostensibly a grocer's shop, but Zeitlin was also a rabbi of the neighbouring synagogue. Mr. Powell said the offence charged was a serious one, and was believed to be largely practised in the East-end of London, where the "brandy was sold in the restaurants and small eating places. It was,

however, an offence exceedingly difficult to detect. Mr. Bushby said he should inflict a fine of 50l. on the first summons, and of 20l. on the second, imprisonment in default of payment or distress to follow for three months and six weeks respectively.

INFRINGEMENT OF THE MEDICAL ACT-THE TITLE OF DOCTOR.—At the Hammersmith Police Court, on August 3, Francis Reid Walsh, of Holland Road, Notting Hill, appeared to answer a summons at the instance of the Medical Alliance Association, taken out under the 40th section of the Medical Act, for falsely as: uming a title implying that he was registered as a medical practitioner. Mr. C. J. C. Pridham appeared to prosecute. Jane Wright, the wife of a carpenter living in Portland Road, Notting Hill, said she was a patient of the defendant, who opened the Holland Road Dispensary. In a conversation he said it was reported that he was not a qualified man, but he was a doctor, and lost his diploma under a bill of sale. A week afterwards he said he was about to sell the dispensary, and that morning he said he received his diploma from Edinburgh. The defendant said he mentioned a certificate from the Queen's University. The witness was positive he said a diploma. Charles Strachan said defendant attended his wife. A receipted bill was produced, bearing defendant's signature, in which the names of Walsh and Husband appeared, and "physician and surgeon." The witness said that he and his wife afterwards entered the defendant's service. Witness was engaged as attendant upon the patients. He never saw Mr. Husband. The defendant when he first came to his (witness's) wife said he was the doctor from the dispensary. He always thought he was a doctor, and a clever man, or he would not have allowed him to attend upon his wife. Other patients were called, one being a young woman, who stated that she was seduced by Dr. Walsh. Mr. Pridham produced a copy of the "Medical Register" for the current year to prove that the defendant was not registered. The defendant said he was not prepared to defend the case in the absence of his solicitor. He admitted opening the dispensary on the understanding that a medical man would join him. He did not join him, and as he (the defendant) incurred debts he worked the dispensary to pay them. Mr. Curtis-Bennett said the Act, which was a most beneficial one, was passed to prevent unqualified persons from acting as medical men. He fined the defendant 201, with 3 guineas costs.

Provincial Reports.

Items of news, and newspapers containing matters of interest to the trade, sent to the Editor, will much oblige.

BATH.

THE BRITISH ASSOCIATION MEETING.—Truth says:—
"The hospitality of the Bath people is certain not overflowing. The local committee for arranging for the reception of visitors have made about 633 applications to residents, and there have been only 86 favourable answers; 330 sent no reply, 210 refused, and seven were unable to make up their minds on the subject."

In justification of the 210 who have refused, it must be remembered that the Association has been to Bath before, and, according to general report, those who have entertained distinguished scientists once do not often care for the honour a second time.

BIRMINGHAM.

MIDLAND COUNTIES CHEMISTS' ASSOCIATION.—A cricket match between the married and single members of this association will take place at Cannon Hill Park on Wednesday next, August 15. Wickets to be pitched at 2 P.M. prompt.

THE EARLY CLOSING MOVEMENT has signally failed here among chemists. Among prominent reasons we may record that a large number have the post office attached to their business; secondly, they find themselves unable to

lose even on Sunday night; and, thirdly, one of the most nfluential houses, which has also a retail attached, finds it nconsistent with the smooth working of their large busiless.

BRIGHTON.

PRIZES.—The Brighton Association of Pharmacy decided eeently to offer two prizes to students in chemistry at the Brighton School of Science and Art. At the meeting of the committee of the latter institution last week the matter was brought before them, the result being that the offer was cortially accepted, and a resolution of thanks to the Association vas passed.

DERBY.

Poisoned by Liniment.—The coroner for Derby held n inquest on August 3 touching the death of George tadsby, aged 47, who about eight weeks ago was attacked ith rheumatic fever, which made him low-spirited. He was nder the care of Dr. Curll, who gave him medicine and also ome liniment for external application. On July 24 his wife ound him in bed unconscious, and then discovered that he ad drunk a quantity of liniment. He was immediately emoved to the Infirmary, where he died. A few days revious to this cocurrence he was observed to have a supercial wound on his throat, and a razor was afterwards found nder the bed. The jury returned an open verdict.

LEEDS.

ACTION FOR LIBEL.—At Leeds Assizes, on August 4, Mr. homas Willer, chairman of the Leeds Guardians and a number of the Town Council, claimed 2,000l. damages from Iessrs. F. White, druggist, and M. E. Appleby, master eweller, for a libel contained in a handbill issued during the selection of Guardians, insinuating that Mr. Willer, s chairman of the board, used his position for his own ends. verdict was given for the plaintiff, with 25l. damages.

LIVERPOOL.

CARBOLIC ACID AGAIN.—Two Irishwomen have been oisoned at Liverpool by drinking carbolic acid from a bottle rhich they thought contained rum. According to the report om the hospital one woman was dead, and there was little ope of saving the life of the other.

MARGATE.

ALLEGED FRAUD.—A young man named William Arnold elby appeared before the Margate borough magistrates last eek on two charges of obtaining money by false pretences. In the first case prisoner succeeded in getting 3l. 7s. 6l. from Irs. Fagz, of the White Hart Hotel, and in the second case l. from Mr. Sutton, chemist, High Street, both for cheques I the Hackney Branch of the London and Provincial Bank. hey were supposed to be drawn by firms who had no account ere, and were returned. Prisoner was remanded until riday of this week.

WARWICK.

A CHEMIST CHARGED WITH STEALING ROSES.—At the enilworth Sessions on August 1 Henry Mann, chemist, riory Road, Warwick, was summoned for stealing two ses, value 2d., from Dromore, Warwick New Road, the roperty of Messrs. Green & Sons. The defendant did not ppear, and the service of the summons having been proved, ome evidence was taken, and the bench decided to issue a arrant for the apprehension of Mann.

IRELAND.

DUBLIN.

THE PROSECUTIONS BY THE PHARMACEUTICAL SOCIETY the Edinburgh Chemists' Assistant Pharmaceutical prescriptions came before the local bench for the first B.Sc. examination.

on July 30, and resulted in a defeat of the prosecutors. The defendants were represented by Mr. McWilliam and Mr. Molloy, solicitors, who argued that it was necessary for the Council to show that these persons were not named on the register of "chemists and druggists," and that as the Society had neglected to prepare such a register they could not furnish this proof. The bench adopted this view, and dismissed the charges, allowing 20s. costs in each case.

OPPOSING THE PHARMACY BILL.—A meeting of the Chemists and Druggists' Association of Ireland (Dublin branch) was held in the Central Lecture Hall, Westmoreland Street, on Monday evening, August 6. Mr. W. J. McNeight presided. Mr. Boyd said the object of the meeting was to take steps to assist the North of Ireland Chemists' Association in opposing the measure now before Parliament, which, if passed in its present form, would affect injuriously the chemists and druggists of Ireland. It was resolved, "That a society be formed in Dublin to work in conjunction with the North of Ireland Chemists and Druggists' Association for the protection and advancement of chemists and druggists in Ireland, to be called 'The Chemists and Druggists' Association of Ireland (Dublin Branch).' "Mr. James Hanson, Capel Street, was appointed hon. secretary, and Mr. C. Johnstone, Sackville Street, hon. treasurer. The following resolutions were adopted:—

- 1. That having real and fully discussed the proposed Irish Pharmacy Act, 1875, Amendment Bill now before Parliament, and while recognising the necessity of providing a proper register of qualified pharmaceutical chemists and chemists and druggists, we consider the Bill deals most unfairly with the rights of chemists and druggists, and we hereby empower our committee to take whatever steps they may think necessary to oppose the Bill, unless such concessions can be obtained from the promoters as will satisfy our just demands.
- 2. That having regard to the undoubted intention of the principal Act to establish permanently two grades of persons entitled to retail poisons and having regard to the requirements of the country and the interests of the public, we consider the Bill should provide for the continuance of the two qualified classes, (a) "pharmaceutical chemists," entitled to dispense prescriptions; (b) "chemists and dauggists," entitled to retail poisons, but not to dispense prescriptions; further, that every reasonable facility should be given to persons holding the Minor qualification of becoming candidates for the Major, and that an apprenticeship of four years under either should entitle a candidate to present himself for the final examination of pharmaceutical chemist.
- 3. That we express our unqualified condemnation of the degrading and insulting clause, No. 13, introduced by the Select Committee of the House of Lords into the Bill, as being quite uncalled for, and absolutely without precedent.
- 4. That copies of the foregoing resolutions be forwarded immediately to the members of Her Majesty's Government, members of Parliament, and, members of the Conneil of the Pharmaceutical Society of Ireland.

Mr. S. P. Boyd was deputed to proceed to London to cooperate with the deputation from the North of Ireland Chemists and Druggists' Association.

SCOTLAND.

ABERDEEN.

A Welcome Gift.—At a bazaar held on Tuesday in aid of the funds of the Turriff Bowling, Curling, and Lawn Tennis Club Mrs. Dr. Mortimer had for sale a selection of Messrs. Lorimer & Co.'s specialitics, which to the value of 131. had been presented by the firm.

Annan.

DEATH FROM CHLOROFORM.—On Sunday afternoon the wife of Mr. Andrew Rae, tailor, Annan, died suddenly under painful circumstances. She had been in the habit of taking chloroform for the toothache, and had done so on Sunday for this purpose. She had evidently inhaled too much, as when found in her room she had breathed her last. Dr. M'Bean was called in, but too late to be of any assistance, and certified that death had resulted from an overdose of chloroform.

EDINBURGH.

MR. GEORGE COULL, pharmaceutical chemist, president of the Edinburgh Chemists' Assistants and Apprentices' Association, has passed in chemistry, botany, and natural history for the first B.Sc. examination. AN ALARMING EXPLOSION of chemicals occurred on August 3 on the premises of the Leith Depôt (Limited), Leith Walk. An assistant, while preparing a quantity of stuffs of a combustible nature, was surprised to see the whole go up in a blaze. The fire-brigade were soon on the spot, but fortunately the blaze had exhausted itself in the first flare. Damage to the extent of about 30l. was done. The explosion is reported to have taken place in the course of making up coloured fires for a fancy fair. If the circumstances are as reported, it is probable that the company have rendered themselves liable to a heavy penalty.

CHEMISTS' ASSISTANTS' AND APPRENTICES' ASSOCIATION.—The botanical excursion announced last week took place on Wednesday. The party left the Caledonian Station at 6.20 A M., reaching Currie about ten minutes to seven. A few minutes' walk brought them to the Poet's Glen, which had heen fixed upon for the practical work. The unusual poverty of wild flowers and the general backwardness of vegetation were again manifest, and it was observed that many of the deciduous trees were already showing autumnal tints, and had even to some extent shed their leaves prematurely. After a pleasant ramble in delightful weather, the company returned to town hy train, reaching Princes Street at 8.30 A.M. Good specimens of Campanula latifolia, Hypericum pulchrum, Lapsana communis, Lathyrus pratensis, Rinanthus Crista galli, Scabiosa succisa and arvensis, Spiraca Ulmaria, and Vicia Cracca were among the plants collected. This concludes the excursions for the scason.

GLASGOW.

Dr. Alexander Napier, Crosshill, has been elected Professor of Materia Medica in Anderson's College Medical School in room of Dr. Martin, who has resigned.

STOW.

Poisoned by Sheep Dip.—At Lugate, near Stow, a little girl, daughter of R. Torrie, ploughman, has been poisoned. The cottage in which she lived is situated near the banks of the Lugate stream, two or three miles below where sheep-dip troughs are supposed to have been washed out in the water. It seems the children in their play had been drinking of the water. Two of them were taken ill. One recovered; the other, in spite of all that medical skill could do, succumbed on Sunday night.

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

Foreign Goods at the Hygiene Exposition.—By Presidential decree, issued July 27, the Palais de l'Industrie shall for the time of the exhibition constitute a legal bonded warchouse (entrepôt réel des douanes). Therefore all foreign goods intended for exhibition shall be allowed to be forwarded thither in transit direct, without payment of duties or search by custom-house officers.

THE HYÈRES POISONING CASE.—On appeal the sentence of the Comte de Villeneuve was commuted from twenty days to forty-eight hours' imprisonment, the fine remaining unaltered. Of course the civil suits for damages will now begin. This ends the criminal side of the case; but how did arsenic find its way into the wine? was it added by mischance or malice? are points which remain as mysterious as ever.

DARWINISM AT THE SORBONNE.—The Paris Municipal Council some time since offered to endow at the Sorbonne Faculty of Sciences a chair of "biological philosophy." The proposition was accepted by the Sorbonne people, on condition, however, that the word "philosophy" be dropped from the title, and some other name, such as "evolution" or "morphology," be substituted. The emendation having been favourably received, the chair is to be inaugurated next session, and Professor Giard, formerly of the Lisle Faculty of Sciences, has been appointed to fill the position

EXPLOSION IN A WHOLESALE DRUG HOUSE.—On August 2, at Grenoble, a porter employed by MM. Lance and Duprey, of the Rue Condillac, accidentally broke a demijohn of benzine in a cellar, and a fire soon resulted. The porter himself, Millett, was not seriously injured, but while firemen

and the police were fighting the flames a violent explosion took place, severely burning Commissary of Police Troutwein, two firemen, and M. Soulié, a medical student. Considerable material damage was done before the fire could be put out.

EUDES, EMILE-FRANÇOIS-DÉSIRÉ, the former "general" of the Commune, who suddenly died last Sunday, began life as a pharmacist's assistant. He was born at Romey (Manche) in 1843, and served three years (1859-62) at Coutances with a pharmacist of the place. Thence he came to Paris, and duly entered his name at the College as a future candidate for the diploma of the second class—he not holding the baccalaureate degree. For three years more he obtained regular employment, in Rue Montaigne, and then Faubourg St. Antoine, in Paris, but finally left pharmacy for politics and journalism militant. His political career was notorious enough, but it would be out of place to here relate it, save to say that for several years he was a refugee in England.

THE TUBERCULOSIS CONGRESS, after a session lasting over a week, separated last Tuesday evening, not, however, without losing one member, a Hungarian delegate, who died in Paris during the convention. The congress adopted the following resolutions, which are to be presented to the different Governments, as its desiderata:—(1) Simple instructions should be written and widely published, indicating how tuberculous infection through aliments—especially milk—is to be avoided, and how virulent germs contained in the sputa. bedding, &c., of tuberculous persons can best he destroyed. (2) The principle of seizing and totally destroying all meat derived from tuberculous animals, no matter how slight the specific lesions may have been, should he generally applied and enforced by all possible means, the owners being duly indemnified. (3) All dairies where milch-cows are kept to supply milk for general consumption should be especially inspected, to guard against contagious diseases liable to affect man. (4) Councils of hygiene should be empowered to consider all questions relating to contagious diseases of domestic animals, even such of them as are not at present considered transmissible to man. For besides cow-pox, rabies, charbon, glanders, and tuberculosis, other contagious discases may hereafter be found requiring similar precautions. The inevitable Mme. Huot was of course present at most sessions and excursions. She cannot complain of having been persecuted, as although she was at times obstreperous, and at Alfort flourished her legendary umhrella in defence of a hen, she was ever courteously treated.

THE EXHIBITION OF LIFE-SAVING AND HYGIENE in the Palais de l'Industrie was officially opened last week, but as it is to last until November 25 the exhibits are much behindhand, especially as regards hygiene and life-saving proper. The first dealers to be ready are the regular inmates of most expositions, who offer for sale all sorts of novelties, fancy and artistic goods, and tempting articles de Paris. Although in reality foreign to the aim of the exhibition, all those tasteful show-cases and attractive counters are rather a pleasing sight, and lend life and animation to the scene. The other day the most interesting object perhaps was outside, in the shape of a Farcy gunboat, high and dry in the Champs The unfortunate craft is intended to float on the artificial basin dug in the centre of the hall, which she can easily do, since, notwithstanding her heavy rifled cannon and 80-horse engine, she draws but two feet of water. Only she was found too broad to go in through the gates, and either a breach must be made through the walls or she must stay outside. For that matter she is as well there, for last Friday the hasin hegan to leak, and had to be emptied out for repairs. It is about 250 paces long and 50 wide, with some 5 feet in depth. A grand life-saving performance was announced for that day, and all the life-boat crews were to show their prowess. But instead of all this the tide was out, the crafts were stranded in a corner, and the men were tossing pennies behind Godard's captive balloon. Upstairs pharmacy promises to be well represented—at some future time, for at present the exhibitors are very backward. An interesting feature will be an old-time apothecary shop, "Aux vipères d'or," containing antiquated mortars and historical appliances, which is to be contrasted with the elegant modern pharmacy; but admittance is yet denied to the old shop, while many glass cases of the modern "officine" still remain empty, with the names of the future occupants only chalked on the glass panes.

Pharmaceutical Society of Ireland.

HE monthly meeting of the Council was held on Wednesday, August 1, present the President (Mr. James E. lunker, M.A.) in the chair, the vice-president (Mr. Draper), al Messrs. Allen, Wells, Doran, Charles Evans, Beggs, M. Cormack, and Dr. Tichborne.

A letter was received from the secretary of the Pharmacitical Society of Great Britain acknowledging the receipt othe Calendar for 1888 of the Pharmaceutical Society of

I land.

THE PHARMACY BILL.

letter, dated July 7, was received from Dr. John William Nore, Registrar of the King and Queen's College of Physicas, intimating that that college intended to petition the Euse of Commons in favour of the Pharmacy Act (Ireland) A endment Bill now being promoted by the Council, and reuiring the names of the members of Parliament who were tentroduce the Bill in the House of Commons.

he President said that at the time he received Dr. Moore's leer he was not sure by whom the Bill would be introduced ir he House of Commons, but suggested that the Solicitor-Geral for Ireland would probably consent to present the petion of the college in that House. The Solicitor-General

he since done so.

letter was received from Dr. Archibald H. Jacob, Regisn of the Royal College of Surgeons, stating that the Presidet and Council of the college had had before them the comunication of the Council in reference to the Amendment Bi and that he had been directed to say that, as the Bill passed through a Select Committee of one House of Psiament and would probably be advanced in the House of ommons before the college could take any useful action in he matter, the President and Council regretted that they we; unable to take at present such active steps as were su ested, but that should any question arise requiring its in vention the college would be happy to confer with the Ph maceutical Society as to what steps should be taken. ie letter was ordered to be marked "Read."

DELEGATES TO THE BRITISH PHARMACEUTICAL CONFERENCE INVITED.

letter was read from the honorary secretaries of the Br sh Pharmaceutical Conference, which is about to be he in Bath, requesting to be furnished with the names of de gates who should go from the Society to the approaching

e President: It is expected that they will have a very successful meeting. The local men are working the matter

1: BEGGS intimated his intention of attending the Conferice, and the registrar was directed to defer replying to theetter until he should receive the names of other dele-

ATTENDANCE AT ANNUAL MEETINGS.

Te CHAIRMAN said a letter had been received on July 27 to late for insertion on the agenda-paper—from Mr. Hill, on very important subject, namely, the expediency of chiging the hour for holding the annual meeting in October fro four o'clock in the afternoon to some hour in the evening He was himself strongly in favour of such a change. It ould, if made, require the sanction of the Privy Council in rder to be valid for the next annual meeting; it wa therefore, important that it should be settled that day; but on the other hand, he was reluctant to ask to have the staling orders suspended with a view to the consideration of e subject now, lest absent members of the Council mit hereafter complain of want of notice.

. Wells: Is it only by a by-law that the hour is fixed? Te PRESIDENT: That is all. It is directed that the antal meetings shall be held at four o'clock P.M. on the first

Molay in October.

the motion of the Vice-President, seconded by Mr. Wes, it was unanimously resolved to suspend the standing ord's and consider the letter of Mr. Hill.

To President read the letter, which was signed by thisen licentiates. It stated that the hour of four in the aftersoon had not induced country members to attend the

annual meeting, whilst it was almost prohibitory as regarded the attendance of members who were in business in Dublin. Accompanying the letter was a return showing the numbers of members of the Society not on the Council, and of members of the Council, who had attended the annual meetings from 1880 to 1887 inclusive, from which it appeared that the largest attendance at any annual meeting had been nineteen, of whom thirteen were members of the Council. He (President) had always looked on that as an unwholesome state of things, and anything that could be done to increase the attendance of members of the Society at the annual meeting he should, for his part, be most happy to facilitate.

The Vice-President: We ought to give every possible attention to the request of these gentlemen. Anything that can be done to increase the attendance of members at the annual meeting should be willingly acceded to by the Council. The question is whether members of the Council who had already attended a meeting in the afternoon could be present at another meeting at eight o'clock; however, we must not consider our own convenience at all.

Mr. DORAN said he thought the request a very proper one, and that it should be acceded to by all means.

The VICE-PRESIDENT: How many members of the Society who were not members of the Council attended the last annual meeting?

The President: Five.

Mr. BEGGS moved that, in compliance with the memorial, the hour for the annual meeting be changed from four o'clock P.M. to 7.30 P.M.

Mr. McCormack seconded the motion, which was unanimously agreed to.

THE RESERVED RIGHTS OF MEDICAL PRACTIFIONERS.

A letter was read from Dr. Laffan, of Cashel, claiming certain rights for medical practitioners in reference to their apprentices. The writer stated that he had a pupil whom pecuniary circumstances had obliged to abandon the medical profession: and he asked the Council to accept the apprenticeship which the pupil had already served him in lieu of the time required by the Council from candidates for the Dr. Laffan stated that he was himself a registered medical practitioner anterior to the passing of the Pharmacy Act (Ireland) of 1875; and he contended that that Act reserved to such practitioners all the rights that it conferred on members of the Society.

The PRESIDENT said: What Dr. Laffan wanted was that the certificates he gave to his apprentices should be recognised by the Society. He (the President) wrote to him, in reply to his letter, stating that no doubt his right to compound and dispense medicines was preserved by the Act of 1875, but that from the beginning to the end of that Act there was not a word about apprenticeship, and that the only binding regulations affecting apprenticeship were those made by the Council of the Society and sanctioned by the

Privy Council. Dr. Laffan had, in reply to that letter, written a second one to Mr. Ferrall.

Mr. Ferrall read Dr. Laffan's second letter, dated July 24, It argued that the President's letter had admitted his contention, since, if a certain class of registered practitioners were entitled to keep open shop they must perforce be entitled to take apprentices therein; and if these were deprived of any privileges enjoyed by their fellows anterior to the passing of the Pharmacy Act it clearly amounted to a curtailment of the privileges of their masters. One of those privileges was that any pupil of theirs might, after six months' service, tender such service to the Apothecaries' Hall in full satisfaction of the term required to be spent behind an apothecaries' counter.

The President said it was desirable that the distinction which now exists generally in Ireland between medical practitioners and pharmacists should be maintained. They did not want to have medical practitioners becoming dis-

pensers of medicine if they could prevent it. The registrar was directed to write to Dr. Laffan, stating that the Council had nothing to add to the information they had already given him.

THE PHARMACY BILL.

The President made a brief report on the present position of the Pharmacy Act Amendment Bill, and said that, in consequence of the state of turmoil into which the House of Commons bad been brought, there was not much prospect of getting the Bill through until the autumn session.

CORRESPONDENCE.

A letter was received from the secretary of the organising committee of the Congresses of Medicine and Pharmacy to be held at Barcelona next September inviting the co-operation of the Society.

A donation was received from the American Pharmaceutical Association of a copy of their National Formulary.

On the motion of Mr. Draper, seconded by Mr. Evans, a vote of thanks was passed to the American Association.

MOVING.

On the motion of the President, seconded by Mr. Wells, it was resolved to give the necessary twelve months' notice of surrender of the premises at present held by the Society at No. 11 Harcourt Street.

THE EXAMINATIONS.

Reports from the examiners of the July examinations were laid on the table

The l'resident said it appeared from these reports that at the Preliminary examination there were twenty-one candidates, of whom twelve passed, and nine were rejected. At the examination for the Licence there were twelve candidates, of whom four failed. He (President) was present during Dr. Whitla's examination, and that gentleman was very much inconvenienced by the state of the museum and the want of a suitable collection of standard specimens. The collection of a complete set of materia medica specimens was entrusted to a small committee.

On the motion of Mr. Allen, seconded by Mr. Wells, Mr. John Evans was unanimously re-elected examiner in practical pharmacy.

On the motion of the President, seconded by Mr. Beggs, Mr. T. W. McMurray, of the Medical Hall, Clonmel, was unanimously elected a member of the Society.

Some financial business having been disposed of, the Council adjourned.

Gazette.

PARTNERSHIPS DISSOLVED.

Borron, C., & Co., Newton-le-Willows, glass bottle manufacturers. Kindersley & Johnson, Marsh Gate Lane, Stratford, manfacturing chemists; as far as regards E. N. M. Kindersley.

Murray, W. H. J., & E. J. (under the style of Thomas Murray), Barbican, patent medicine proprietors.

Patry & Pasteur, Mineing Lane, City, East Judia and Colonial brokers; as far as regards M. H. Pasteur.

Wynter-Blyth & Bloxam, Mansion House Chambers, Bucklersbury, City, consulting chemists and analysts.

THE BANKRUPTCY ACT, 1883.

FIRST MEETINGS AND PUBLIC EXAMINATIONS.

Dards, Joseph, Old Kent Road and London Road, mineral water mannfacturer—Aug. 15, Bankruptey Bnildings, Portngal Street, Lincoln's Inn Fields; Sept. 13, 34 Lincoln's Inn Fields.

Jones, Edward, Camberwell New Road and New Street, Kennington, chemist—Aug. 14, 33 Carey Street, Lincoln's Inn; Sept. 6, 34 Lincoln's Inn Fields.

Nish, John Carisford, Manchester, drysalter, aniline dye merchant, and agent—Aug. 10, Official Receiver's offices, Manchester; Aug. 15, Court House, Manchester.

Steadman, George, Sheffield, botanist—Aug. 14, Official Receiver's offices, Sheffield; Aug. 23, County Court Hall, Sheffield.

NOTICES OF DIVIDENDS.

Abbott, William Hodson, Annesley Woodhouse, Newstead, Kirkby, and Kirkby Folly, Nottinghamshire, surgeon—first div. of 2s. 6d., Aug. 15, 16 Fletcher Gate, Nottingham.

Whitehead, Ebenezer, Kug's Lynn and Bawsey, Norfolk, accountant, oxide of iron merchant, and paint mannfacturer—first and final div. of 64d., forthwith, office of Trustee, King's Lynn.

Legal Reports.

Re THE GENERAL APOTHECARIES' COMPANY.

WE reported last week the application to Mr. Justice North on behalf of this company for a reduction of capital. When the Court resumed on August 2,

Mr. Grosvenor Woods submitted that what the shareholders intended by their resolution was merely to deal with the issued capital, and to leave the unissued capital as it stood at present. The affidavits which had been filed in support of the petition showed that the proposed reduction was a proper one, and he asked his lordship to sanction the proposal.

His lordship sanctioned the proposed reduction.

SELLING A CHEMIST'S BUSINESS—CLAIM FOR COMMISSION.

On Tuesday in the City of London Court, before the Deputy-Judge (Mr. O. B. C. Harrison), the case of Hawkins v. Bridges came on for hearing. It was an action brought by the plaintiff, Mr. Thomas Hawkins (trading as Orridge & Co., medical agents, 32 Ludgate Hill, E.C.) against the defendant, Mr. E. C. T. Bridges, chemist, formerly carrying on business at 7 Market Place, Station Road, Willesden, to recover the sum of 11l. 5s commission on the sale of his business, with a modified claim of 8l. 15s. in the event of the purcbase price being less than the plaintiff originally under stood.

Mr. Fillan, barrister, appeared for the plaintiff, and Mr. Muggeridge, solicitor, represented the defendant.

In opening the case Mr. Fillan said the reason of the amended claim was that the price which the defendant wanted for his business first was 350*l*., and after the sale to Mr. Robert Kerr it was believed for some time that that was the amount realised. The plaintiff was unable to discover the whereabouts of the defendant, but ultimately he ascertained that he was living with his father in Devonshire, and that the actual money paid by Mr. Kerr was 250*l*., and on the ordinary scale of agents fees of 5 per cent. on the first 100*l*., and 2½ per cent. on the rest, the action would consequently be for the recovery of the lesser amount mentioned above, namely, 8*l*. 15*s*.

Mr. Muggeridge, in answer to the learned judge, said the defence was simply that the plaintiff was not the actual introducer of the purchaser, but another agent, to whom commission had already been paid.

Mr. Thomas Hawkins, the plaintiff, was then called, and deposed that in the month of February he was consulted by the defendant with reference to the sale of his business at Willesden, and advertised it several times.

There was a long correspondence, which was opened in the first instance by the defendant, and he (the plaintiff) had interviews with various persons with a view to a sale. His advertising expenses were 3t. The defendant supplied him with particulars, of which he made lithographed copies, and sent them to a great many likely purchasers. Amongst them was Mr. Kerr, who called upon him on April 23, and was informed that the price was 350t. At the same time he told Mr. Kerr that, as Mr. Bridges was ill and anxious to dispose of his business, that figure was not a binding one, and that a lower offer might be accepted. He was sure that Mr. Kerr knew nothing about the business until he introduced it to him. He heard nothing more from the defendant, though he became aware indirectly that he and Mr. Kerr were negotiating. After the sale he wrote to the defendant about the matter, taking care to register the letter. It was not returned, and though he received no reply it must be assumed that it reached its destination.

In cross-examination the plaintiff said he gave Mr. Kerr full particulars on April 23. He had not seen him since. He believed Mr. Kerr went to Mr. Baker, of Pimlico, who took the matter up and effected the sale. They were, to the best of his knowledge, personal friends.

Mr. J. P. Parkes, traveller to Messrs. Herring & Co., wholesale druggists, Aldersgate Street, deposed that the defendant spoke to him about the sale of his business, and he recommended Orridge & Co. as most respectable agents. The defendant informed him that he had had a letter from

at firm to the effect that particulars had been given to veral applicants, but added that he had not seen any of em. That was on Saturday, May 5. At the same time he id he had had a visit from somebody on the Thursday evious with an order to view, but he did not know the ntleman's name. Upon that witness told the defendant at a gentleman, who afterwards proved to be Mr. Kerr, had clled upon him on the subject, and, in reply to an inquiry as twho had given him information about the business, Mr. Brracknowledged that it was Orridge & Co. On the followiz Sunday the defendant came to his house, and repeated is statement about a gentleman calling on the Thursday.

Cross-examined: The defendant wanted him to sell the tsiness, but he never tried. In fact, he never did, for the by good reason that, though people promised to pay gentmen in his position a commission, they generally backed of of the promise on the plea that they were not licensed vuers. (Laughter.) Consequently he always took the p caution to recommend a licensed agent. If he did part of work he would naturally expect a part of the commission. I did not know that Mr. Baker was an agent until he saw h advertisement in a trade journal some weeks ago.

le-examined: He had received a letter from the defendant fin Devonshire, in which the latter admitted that 250l. was

t price he received.

or the defence, Mr. Muggeridge said his client sent partillars of his business to a number of agents, doubtless inclling the plaintiff. Each of these agents sent forms for tl defendant to fill up and return, and he informed them all tlt his price was 350l. No offer, however, was made until ti lapse of some months, when Mr. Baker introduced Mr. Kr, with the result that an offer of 2501. was made and acepted, the money paid, and the whole transaction com-

Ir. E. T. C. Bridges, the defendant, admitted that he first ased Mr. Parkes to find a purchaser, and that he recommided Orridge & Co. alone. However, he sent particulars to ther agents. When the plaintiff wrote inquiring if he he heard from any of the names given, he answered in the nertive. Mr. Kerr was introduced to him about a week bere the sale by Mr. Baker, to whom he had paid 81. 15s. comission. In cross-examination, he would not say that M Parkes was telling an untruth about the interviews sp:en of, but he thought he was mistaken about the dates. Our one person called about purchasing the business, and th turned out to be Mr. Kerr, whom he asked on May 3 to ca on Mr. Parkes as a reference respecting the stability of th business. Mr. Parkes on May 5 told him that Mr. Kerr ha called. There were some dates he could not himself recember, as certain documents had been lost in the course of moval. The plaintiff wrote to him in June about the He did not reply because he did not think it had anythis to do with him.

c. Thomas Kerr, formerly an assistant to Messrs. Squire & t., chemists, Oxford Street, said he had purchased the Wiesden business. He called on Orridge & Co. previously, anthey mentioned the defendant's business and another at Pe ham. That would be about April 20, and from that day he ad had nothing to do with Orridge & Co. On May 1 he hata letter from Mr. Baker, and when that gentleman mentio d the defendant's business he said it was no use going te e it as the price was too high. Still he did go at Mr. Bar's request, and through him bought the business for

250, or 1001. less than the original price named.

coss-examined: He did not get particulars from the pla tiff, nor was he told that a less offer than 350l. might be ent tained. He did not say to Mr. Parkes that Orridge

& f. introduced him to the defendant.

Is Honour here pointed out that the particulars distinctly stad that any reasonable offer would be taken into con-

sid ation.

. Parson C. Baker, chemist, of Pimlico, stated that the defadant placed the business in his hands at the end of Apr. He was sure of that, though he had not brought his bocs to the court. He got his commission on the sale, for the simple reason that it was he who really introduced Mr. Cerr.

Is Honour, in giving judgment, said it seemed to him that he plaintiff had not been very fairly or properly used in is matter, and the only difficulty he had was whether the lefendant, having paid one person, should pay over

again under the circumstances. It would, however, be manifestly unjust for the plaintiff to be put to so much trouble without remuneration. This was not like the case of a house agent applying to sell or let property, inasmuch as the defendant approached the plaintiff in the first instance through Mr. Parkes, who had given his evidence very well, and who had recommended Orridge & Co. as most respectable agents for this sort of business. Besides, the letter written by the defendant showed that they were fully instructed to find a purchaser, and there did not appear to be any strict limit to 3501. In view of all the facts, and as an offer of compromise made by him during the hearing had been declined, he must give judgment for the plaintiff for 81. 15s., with costs.

Mr. Muggeridge applied for leave to appeal, as a question

of law was involved.

His Honour declined. It was only a question of fact, and he felt that the plaintiff had been treated in a shabby and improper way.

READING SAUCES.

On August 3, before Mr. Justice Chitty, a motion was made for an injunction to restrain the use of certain labels by Messrs. E. Cocks, of Clapham Junction. The plaintiff was Mr. Morris, of Reading, successor to Mr. Cocks, and proprietor of the "Original Reading Sauce." Mr. Whitehorne, Q.C., and Mr. Vernon Smith appeared for the plaintiff, and Mr. Romer, Q.C., and Mr. Thompson for the defendant. According to Mr. Whitehorne's opening statement, the plaintiff's predecessor invented the "Reading Sauce" in the year 1789, and since that time it had been continuously manufactured and sold in Reading by the same firm. In the year 1865 the word "original" was added to the name, and for the last sixteen years, according to the evidence, the plaintiff's sauce had been known in the market as the "Original Reading Sauce." The defendant, whose real name was Hughes, had been a retail grocer, and in 1886 he with his partners commenced business as a sauce and pickle manufacturer at Clapham Junction. No question turned on the use of the word "Reading," because that had become by long user publication juris. Defendant said he took the name of Cocks in order to avoid conflict with retail traders. Two labels used by the defendant were complained of-one bearing the words "Manufactured solely by E. Cocks, Ciapham Junction," and also the statement "None genuine except that manufactured by E. Cocks & Co." That, he contended, came directly within the authority of James v. James, the horse-blister case, as it was a representation by this gentleman, who had carried on business for two years, that this "Reading Sauce was manufactured solely by him, and that none was genuine except that signed with the name E. Cocks & Co. The other label of which complaint was made bore the words, "Sold by the proprietor, Reading," which was a false representation, as the defendant had no place of business in that town.

Mr. Romer said it was a practice common to the trade to put on the labels of "Reading Sauce" the words, "Manufactured by the proprietor, Reading." That had been used as a common form for a number of years, and the sauce itself had been made hundreds of years ago, and if any particular manufacturer wished to distinguish his sauce from the common form he must put something distinctive on the label. The word "original" was used for this purpose by the plaintiff, but, not content with that, he had the words, which was prepared and sold wholesale and retail by the late J. Cocks, and now by his son and sole successor, Charles Cocks, Reading." That statement was an entire misrepresentation, and, as he contended, disentitled the plaintiff (Mr. Morris) to any relief, at any rate on an inter-

locutory motion.

Mr. Justice Chitty said this seemed rather a serious objection to the present motion, and he should like to hear what

Mr. Whitehorne had to say to it.

Mr. Whitehorne said this was the label used by Mr. Charles Cocks, who died in 1864, and the business, after passing through the hands of several members of the family, had now come into the possession of the plaintiff, who was the son-in-law of the last possessor. He mentioned two cases which he should rely upon.

Mr. Romer said his friend was trusting to a broken ree-1,

for those cases had been overruled long ago.

Mr. Justice Chitty thought any plain man of business, not accustomed to the various courses pursued in trade, would understand by this label that Charles Cocks was alive, and was the maker of the sauce

Mr. Whitehorne said the only word which was incorrect

was the word "now."

Mr. Justice Chitty suggested that, as there was evidently a serious question to be argued, it would be better to let the motion stand over to the trial of the action, the defendant undertaking to keep an account; and, after a short discussion, this was agreed to.

EARALINE.

In the High Court of Justice, Chancery Division, in the case of H. Wright, Bridge Street, Bradford, plaintiff, and J. Holdroyd, Westgate, Cleckheaton, defendant, on July 19, Mr. Justice Kay granted a perpetual injunction restraining the defendant, his servants, and agents from infringing the plaintiff's registered trade-mark, No. 27,738, which consisted of the word "Earaline," in conjunction with a device, and also perpetually restrained the defendant, his servants, and agents from passing off or attempting to pass off any medicinal preparation (for the cure of deafness, &c.) not of the manufacture of the plaintiff as or for the goods of the plaintiff by the use of the word "Earaline," or by the use of any device or by advertisement, or otherwise, and ordered the defendant to pay to the plaintiff his costs of the action, the plaintiff accepting the damages paid into court by the defendant.

FAILURES AND BANKRUPTCY REPORTS.

Re JOHN HENRY ATHERTON, Wigan, Chemist and Druggist.

The creditors on this estate met on August 2, at the County Court Offices, Wigan, Mr. T. H. Winder, the Official Receiver, presiding. The Official Receiver stated that the debtor had put down the fittings and fixtures, and the value of the shop as a going concern, at 800l. He had advertised the business as a geing concern, and Mr. Ward, of Johnson Street, Montagne Street, Blackburn, had offered 370l. for it, "all establishment charges to be paid, and the money to be paid down." The debtor (who was represented by Mr. J. France, jun.) did not make any offer. Mr. Samuel Graham, accountant, &c., King Street, Wigan, was appointed trustee, with Messrs. O. Rushton, T. Berry, W. Roger, J. F. Ashton, and J. McClure, as a committee of inspection.

Re II. B. Dixon, Hanley, Wholesale and Retail Chemist.

ON August 3, at the Hanley County Court, Mr. A. P. Llewellyn made an application to his Honour Judge Jordan iu the matter of the bankruptcy of Henry Benjamin Dixon, lately carrying on business as a wholesalc and retail chemist, at Hanley, to approve a composition of 6s. 8d. in the pound. Mr. Llewellyn explained that it was proposed to pay the composition by three instalments, at the end of two, four, and six months respectively. He (Mr. Llewellyn) had undertaken to see the first instalment paid, and the second and third instalments had been guaranteed by two persons approved by the trustee in bankruptcy (Mr. P. H. Pope). The creditors were willing to accept the composition, and it was therefore urged that an order should be made annulling the bankruptcy and revesting the estate in the bankrupt. If the estate were realised in bankruptcy, the creditors would only receive about 2s. 6d. in the pound. Mr. T. Slaney (Newcastle-under-Lyme), who appeared for the trustee, said that Mr. Pope approved of the scheme, and offered no objection to the adoption of the course suggested. His Honour said that the bankrupt's liabilities were about 1,400%, and the assets had been estimated to produce 7471.; but this they had not done. The report of the Official Receiver showed that beyond not keeping proper books of account, and trading after he knew himself to be insolvent, the conduct of the bankrupt had not been at all reprehensible. He thought the proposed composition would be for the best interests of the creditors, and therefore he should make an order approving it, annulling the bankruptey, and revesting the estate in the bankrupt!

Re C. J. SHACKLETON, Mill Hill, Derby, Chemical Manufacturer.

THE public examination of this debtor, who had been carrying on business at Madeley, was held at the County Court, before Mr. Registrar Potts, on August 1. The statement showed a total liability of 4,019\(\ell.\) 5s. 10d., and assets estimated to realise 1,000\(\ell.\) 11s. 1d. According to the Official Receiver's report, the alleged cause of failure was stated to be a combination of railway companies prohibiting the carriage of certain chemicals, and the condition of affairs when the debtor was induced to enter the business. The debtor, Charles James Shackleton, residing at Mill Hill, Derby, in January, 1886, agreed to take over the assets and liabilities of the concern from the then owner (a Mr. Brocksop), who is a relative, on the basis of a balance-sheet prepared at that date, such transfer involving no payment by the debtor beyond the writing off a cash loan of 150l. due to him from the vendor, who remained as manager of the business. The debtor appeared to have put into the business a further capital of about 250%. The manufacturing premises, with land and cottages, were estimated at 2,437, and these, together with certain life policies valued at 1701., were charged to secure a first mortgage of 1,332l, executed by Brocksop (subject to a prior charge of 80%), and transferred to the debtor on the sale of the ehemical works, and also a second mortgage executed in July, 1886, to partly secure the sum of 1,455l. 15s 9d. stated to be owing to the debtor's father, thus leaving a deficiency on the second mortgage of 2311. The father is also returned as an unsecured creditor for 654l., and there were other family claims amounting to 230l. The overdrawn banking account of 1,400l. was partly secured to the extent of 100%, and there was also collateral security. Accommodation bills amounting to 9811, were current or unpaid, and rank against the estate. From the examination of the debtor by Mr. Sudbury (the Official Receiver), Mr. Clarke, and Mr. Stone, he had taken over certain mortgages previously executed by Brocksop, and had executed a second mortgage in favour of his father to partly secure a sum of 1,455*l*. 15*s*. 9*d*. owing to the latter. From the examination of the debtor it appeared that the business had been left to the management of Brocksop, and that the bankrupt had no practical acquaintance with it. The bankrupt asserted that by misrepresentation he took the concern over on unfavourable terms, and to that fact he owed his failure. The inquiry was adjourned.

Re HENRY D'ARGY POWER, 133 Ryc Lane, Peckham; 1 Victoria Road, Choumert Road, Peckham; and The Laurels, East Dulwich Road, Physician.

This bankrupt applied to Mr. Registrar Hazlitt, on Thursday, at the London Bankruptcy Court, for his order of discharge. A receiving order was made against the debtor's estate in March last on a creditor's petition. The Official Receiver's report stated that the bankrupt submitted a statement of his affairs in April showing liabilities amounting to 6641. 16s. 10d. and assets estimated to realise 69l. 0s. 10d. Proofs were sent in for claims to the amount of 6481. 13s. 6d., and the Official Receiver estimated that the assets would only realise 48l. 19s. 6d. At the public examination the bank-rupt stated that from 1880 to 1882 he was managing director of a company at a salary of 300l. a year, and held also 800l. of ordinary shares in the company; that in 1882 his company became amalgamated with another, and his services were dispensed with, while the purchasemoney paid to his company was only sufficient to discharge the debentures, and his ordinary shares consequently proved to be valueless. He also stated that upon leaving the company be resumed and completed his medical studies, and since September, 1884, has been practising as a surgeon; further, that some time since an action was brought against him for alleged malpractices; that he gained the action, but never recovered his costs. He attributes his failure to the loss of his salary as director, and to the law expenses of the above-mentioned action, and further states that when his salary ceased he owed about 2001, and had been constantly pursued by those debts since. No offences were charged against the bankrupt, and, there being no opposition, the learned Registrar granted an immediate discharge.

Re Byron Blewitt, 120 Leadenhall Street, and 73 Adelaide Road, Hampstead, Surgeon.

THIS debtor applied to Mr. Registrar Giffard on Wednesday st, at a sitting at the Bankruptcy Court, for his order of scharge. Mr. Aldridge appeared for the Official Receiver, c. Herbert Reed for the trustee, and Mr. Yate Lee supported te application on behalf of the bankrupt. The Official ceiver's report was read, and it appeared therefrom that te recieving order was made on the debtor's own petition on ne 4, 1886, and the debtor filed a statement showing lbilities of 2,317l. 14s.4d., and assets valued at 653l. 10s 1d, are deducting preferential claims amounting to 43l. 13s. Dofs were made for 2,106l. 9s. 2d., and the trustee estimated t; assets would realise 3361. 8s. The first meeting of creditors vs held on July 5, 1886, when the debtor was adjudged bakrupt, and Mr. J. W. Woodthorpe was appointed trustee wha committee of inspection. At the public examination hd in the following November, the bankrupt stated that he by an to practise as a surgeon in England in 1871. In 1879 h was adjudged bankrupt with liabilities of 3,925% at assets 45%, and obtained his discharge therefrom in Agust 1882. The present failure is attributed by the bank. rit to speculations on the Stock Exchange, the deficiency a ount showing the amount of such losses to be 1,989l. 9s. T: offences charged by the Official Receiver were that the by krupt had brought about his failure by rash and hazardous siculations, and that he had on a previous occasion been a udged bankrupt. Mr. Reed, in opposing the application, set the trustee complained that bankrupt had not assisted hi in realising the estate, and that he had collected certain bik debts, and it became necessary to obtain an order of tl Court directing the bankrupt to refund the amount so ccected. He further stated he should have to examine the detor upon various points. Mr. Yate Lee, on the bankrupt's bealf, pointed out that, owing to an attack made upon him at'ıt eighteen months ago, when his skull was broken in by a luckle-duster, the bankrupt was not in a state of health to e subjected to an examination. Mr. Reed thereupon stred he could examine witnesses instead; but that would ne ssitate an adjorrnment to enable him to have them br ght before the Court, and it was decided by his Honour to ljourn the application until November 1 next.

DWARD JONES, 59 Camberwell New Road, and 9 New Street, Kennington, Chemist.

RECEIVING order was made against this debtor's estate on uly 18 last, and accounts have now been issued from the de rtment of the Official Receiver, which show unsecured cre tors for 1981. 11s. 4d., and preferential creditors, for rent ancates, 6l. 3s. 6d. The only asset returned is stock-intra, valued at 5l. The Official Receiver reports that the delar states he filed a petition for liquidation in the Leaster County Court in 1881, under which a dividend of 3s. 1. in the pound was paid, and he obtained a discharge. In ovember of that year he removed to London, and acted as assistant until June, 1886, when he agreed to purchase the usiness and stock, &c., from his employer for 1501, in resict of which the present liabilities include a claim for 137, representing a judgment for balance of the purchaseme y, costs, and rent paid. He attributed his failure to his trae and personal expenses having been in excess of his pros, in consequence of the trade having fallen off through corretition and deterioration of the neighbourhood, and to leg expenses in defending an action. The lease of the bus ess appears to have been sold, at Midsummer last, for 364 and the amount devoted to paying rates, taxes, and leg; costs, and the household furniture is said to have been seial and sold, under an execution, in December last, and is at 12sent hired by the debtor's wife. The first meeting of creetors will be held at Carey Street, Lincoln's Inn, on Ausst 14, and the debtor's public examination is fixed for Sep mber 6 next at the London Bankruptcy Court.

I is said that a new medical journal is to be published in Sepmber under the title of the *Illustrated Medical News*. Sir orell Mackenzie, it is rumoured, will either be editor or leading contributor.

TRADE-MARKS APPLIED FOR.

THE Trade Marks Journal publishes the following notice:—"Any person who has good grounds for objection to the registration of any of the following marks may, within two months of the date of this journal, give notice in duplicate at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1883, of opposition to such registration." The address of the Patent Office is Southampton Buildings, London, W.O.

From the "Trade Marks Journal," August 1.

- "BEACON CURE"; for medicine. By E. J. Penseney, 379 Albany Road, Camberwell. 69,787.
- "Mason's Poultry Medicines," and other wording on label; for poultry medicines. By R. C. Mason, High Street, Bromsgrove. 71,038.
- "ST. JACOBS OIL CONQUERS PAIN," and figure of the saint on label; for a medical preparation for veterinary and human use. By the Charles A. Voegeler Company, 45 Farringdon Road, E.C. 71,379-80.
- "BONNET'S UNRIVALLED EMBROCATION," initials, and figure of an ant; for embrocation. By J. C. Bonnet, 97 Wellington Street, Woolwich. 72,371.
- "CASCARADYNE," on block and signature; for a medicine. By T. O. Sandell, 1 Baron's Court Road, West Kensington, 72,973.
- "THE YORKSHIRE TIC AND TOOTHACHE REMEDY," on label; for pills for toothache. By E. M. Pratt, Manor Square, Otley. 72,988.
- "The A. D. C. 'DOLLAR' CORDIAL FOR CALVES," and other wording on label; for a medicine for calves. By the Aylesbury Dairy Company (Lim.), 31 St. Petersburgh Place, Bayswater, W. 73,117.
- "DIABETIC JELLY," and other wording on label; for a jelly for medicinal purposes. By Batger & Co., 103 Broad Street, Ratcliff, E. 73,222.
- "Scruton's Cough Cure," on heraldic device; for a preparation for human use. By A. Oglesby, trading as Oscar Scruton & Co., 21 Cheapside, Barnsley. 73,269.
- Designation of depositor's motto, &c., on round label; for chemical substances, Class III. By Horner & Sons, Mitre Square, Aldgate, E.C. 73,523.
- Device (horse's head within a horseshoe); for hoof cintment. By J. C. Bonnet, 98 Rue de Maubeuge, Paris. 73,554.
- "R. FLETCHER'S ALBION OINTMENT," with device on label; for ointment. By R. Fletcher, 184 Oldham Road, Manchester. 73,835.
- "DR. HAIR'S ASTHMA CURE"; for a medicinal compound By J. W. Hair, Cincinnati, Ohio, U.S.A. 74,447.
- "STOTHERT'S STARCH ENAMEL"; for a laundry preparation. By T. Stothert, Station Road, Blackburn. 74,680.
- "REFINED LIPARI CRYSTAL LAVA PUNICE SOAP," and other wording on label; for pumice soap (perfumed). By James Alexander & Co. (trading as the Lambeth Pure Toilet Soap and Perfumery Works), 8 Paradise Street, Lambeth, S.E. 74,861.
- "HAGON'S FLUID HERBS," on block; for an extract of herbs for manufacturing herb beer. By A. Hagon, 39 Bridge Street, Cardiff. 75,276.
- "R. WILLETT & NEPHEW'S VEGETABLE ESSENCE OR RUBBING BOTTLE," on label; for an embrocation. By R. Willett & Nephew, Meltham. 75,330.
- "Bonney's Disinfectant Furniture Polish," on label; for the same. By J. Bonney, 353-5 Harrow Road, Paddington. 75,413.
- "ALLISON'S LIFE BRIGADE REMEDIES," and device on label; for patent medicines. By J. C. Allison, 42 Thames Street, South Shields. 75,509.
- "SEQUAH'S PRAIRIE FLOWER," on figure of a bunch of flowers; for a patent medicine. By W. H. Hartley, 40 Farringdon Street, E.C. 75,527.

- MICROBENE" (crossed), and other wording on device; for a chemical substance. Also "Buccillium"; for disinfecting compounds. By the Coal Tar & Metallic Disinfectants Company, 14 St. Mary Axe, E.C. 75,533 and 76,702.
- "COOKE'S COSMO-CURATIVE PILLS," and other wording on label; for medicine. By F. H. Cooke, Coatham, Redear. 75,671.
- "GOYA LILY," and figure of a flower on label; for perfumery. By Burroughs, Wellcome & Co., Snow Hill Buildings, E.C. 75,804.
- "ALLEN'S IMPROVED SHEEP DIPPING COMPOSITION"; for the same. By Elizabeth Allen and John Neale, trading as II W. Allen and Neale, 55 High Street, King's Lynn. 75,914.
- Heraldic design (shield with cross staves); for chemical substances. By W. J. Crook, 35 Easteheap, E.C. 75,968.
- "CANNICIDE"; for an application for corns. By John Wakefield, trading as Bellamy & Wakefield, 1 Easy Row, Birmingham. 76,209.
- "THE 'ACME SACCHARUREAMETER'"; for an instrument for the estimation of urea and sugar in urine. By R. D. Gibbs and J. Cuxson, trading as Gibbs, Cuxson & Co., Wednesbury. 76,352.
- Figure of shield bearing designation of depositor; for medicine. By W. Clarke, 153 High Street, Stockton-on-Tees. 76,366.
- Figure of carel cross: for tooth powder and paste. By W. Wilson & Son, 34 English Street, Carlisle. 76,457.
- "PANILOID"; for chemical substances. By Oppenheimer Brothers, Sun Street, Finsbury Square, E.C. 77,074.

From the "Trade Marks Journal," August 8, 1888.

- "GINGER ALE," with picture of ginger on label, and signature. By L. W. Cade and E. Smith (trading as W. Cade & Co.), 15 Upper Parliament Street, Liverpool. 68,020.
- "T. F. Bristow & Co.'s GLYCERINE AND CUCUMBER SOAP," in block letter; for a perfumed toilet soap. By H. N. Bolton (trading as T. F. Bristow & Co.), St. James's Walk, Clerkenwell, E.C. 70,020.
- "HAMPTON COURT SAUCE," with picture of Hampton Court and signature on label. By Annie Qipton, Maple Road, Surbiton, Surrey. 72,334.
- "Dermolave, the syrup of soap," on label: for a toilet preparation. By H. P. Truefitt (Limited), 13 & 14 old Bond Street, London. 73,305.
- "HAYES' FOOD," with picture of hand holding balance; for a food for invalids. By J. T. Crosher (trading as Tebbutt & Co.), Melton Mowbray, Leicestershire. 73,402.
- Mineral waters, monogram in garter, with name "II. W. Steel, Oxford" By H. W. Steel, Worcester Place, Oxford. 74,969.
- "COOKE'S COSMO CURATIVE MINTURE," and other wording, on label bearing signature: for a medicine. By F. II. Cooke, Coatham, Redear. 75,670.
- Mineral and acrated waters, picture of ship's winch, with letters "R. S. & D. C." By R. S. & D. Crosthwaite, South Shields, Durbam. 75,967.
- "No Name," and other wording, on label; for a perfume. By T. Clare & J. Clare (trading as Clare & Hunt), 1 Harcourt Place and 2 South Street, Scarborough.
- "Express," with picture of flying wheel; for mineral and aërated waters. By George Taylor, Trent Street, Attercliffe, Sheffield. 76,087.
- Curved diagram, with letters "K. T. D. & Co."; for a mineral substance called tincal for use in manufactures. By Dods, Ker & Co., 11 Albert Square, Manchester. 76,100.
- "Maw's Lenticular Thermometer"; for clinical thermometers. By Maw, Son & Thompson, 7 to 12 Aldersgate Street, London. 76,167.
- "Louvima"; for perfumed soap. By W. G. Parnell, 3 Craven Street, Strand, Middlesex. 76,283.

- Picture of boy driving goat cart, with "II. Gamble's Sauces and other wording; for sauces for puddings, &c. By II. Gamble, 1 Park Grove, Bromley, Kent. 76,417.
- "INVICTA," in block letter; for knife-powder and other articles for cleansing. By W. G. Nixey, 12 Soho Square, London. 76,438.
- "DARLINGTON'S FUMIGATING MIXTURE"; for an insecticide. By J. W. Darlington, 193 New Road, Chatham, Kent. 76,514.
- "CASCADA," in block letter; for chemical substances. By Allen & Hanburys, Plough Court, Lombard Street, London. 76,649.
- "MATCH FOR ALL," with drawing of two matches crossed; for mineral and aërated waters. By H. Hartley, Bradley Cottage, Appleton, Widnes, Lancashire. 76,660.
- Signature "A. F. Perkins" and "Southsea" in block letter; for mineral and acrated waters. By A. F. Perkins, Palmerston Road, Southsea, Hants. 76,814.
- Signature "Alfred Bird & Sons"; for vermin destroyers (76,899); ditto, for medicated articles (76,900); ditto, for mineral and aërated waters (76,903); and ditto, for violet powder, perfumery, &c. (76,905). By Alfred Bird & Sons, Devonshire Works, Birmingham.

Trade Hotes.

THE directors of Barclay & Sons (Limited) have issued warrants for an interim dividend of 1s. 6d. per share on the ordinary shares.

LAST week, in referring to Messrs. Burroughs, Wellcome & Co.'s Anticonstipation Tabloids, we named alum $\frac{1}{5}$ grain as one of the constituents. This was a misprint for atoin.

MESSRS. SEABURY & JOHNSON, who are now in working order at 47 Farringdon Street, insert in this issue an announcement expressing their acknowledgment to Messrs Hawkes, Somerville & Co., of Whittington Avenue, for the temporary assistance afforded them.

H. LAMPLOUGH & Co. (LIMITED).—At the adjourned general meeting of the shareholders of this concern the report of the committee appointed to investigate the affairs of the company was submitted. The committee stated that they had looked into the accounts of the company and the trade, and found that it was in a thoroughly sound condition. The committee had given special attention to the deposit of the money at Alexander Brown's bank at the time of his failure, and quite agreed in the independent investigation made by Mr. Lescher. Mr. Lamplough had agreed to take upon his own responsibility all the money in Mr. Brown's hauds, and had given his bills to the company, and deposited fully-paidup shares to guarantee the amount. The result of these negotiations would secure the company against any loss in consequence of the failure of Mr. Brown. The committee recommended the resignation of Mr. Eden, and suggested that certain alterations should be made in the trading and various accounts, that the number of directors be increased to five, and that various alterations should be made in the articles of association. The chairman then moved that, subject to the remarks contained in the report of the committee appointed to investigate the matter of the accounts, the report of the directors be adopted by the meeting. He added that the efforts of the committee had so far improved the prospects of the company that the shares were now quoted 35s. to 37s. 6d. The motion was carried, and Mr. Lamplough was complimented on the honourable manner in which he had met the shareholders. In the course of discussion shareholders remarked that the working expenses had increased, while the profits had fallen much below what had been stated in the prospectus. Mr. Lamplough, in reply, said no doubt the profits had fallen off on account of extreme competitiou. There was one concern (Eno's) which advertised largely; and, besides, many country chemists made their own pyretic saline, and represented it to be as good as Lamplough's. Mr. T. F. Lynch (Lynch & Co., Aldersgate Street) was appointed a director in place of Mr. Edcn, but a motion to replace Mr. Gribbon as auditor by Mr. Lescher was not carried.

BRITISH MEDICAL ASSOCIATION.

ANNUAL MEETING IN GLASGOW.

HE fifty-sixth annual meeting of the British Medical Association commenced in Glasgow on Tuesday, and has a tinued throughout the week. Tuesday's weather was not at Il favourable for a good commencement, there being a dizling rain and a brisk wind on the forenoon, which were sticient to prevent the members ascending Gilmore Hill uil the evening, when the President-elect delivered his acress; nevertheless, the corridors of the University preseied a very animated appearance during the day, and on susequent days the assemblage was such as to quite repay th local committee for the strenuous labours which they had mle for the comfort of the members and the success of the m ting.

he first general meeting of members was held in the Butc Hl at half-past eleven on Tuesday. The President, Dr. Jon T. Banks, Regius Professor of Physic in the University of Dublin, presided, and there was a large attendance. Approximately Ap of hem were present-were Sir Spencer Wells, Bart.; Sir Arrew Clark, Bart.; Dr. Clifford Allbutt, F.R.S, Leeds; Su con-General McLean, C.B.; Sir Wm. Aitken, M.D.; Dr. Gege Duffy, Dublin; Professor Crookshank, King's College, Delin; Sir George H. Porter, M.D., Dublin; Dr. George Sa.ge, London; Dr. Edward Waters, Chester; Mr. C. G. W. elhouse, Leeds; Dr. Apostoli, Paris; Dr. A. Jacobi, New Yoc; Professor von Rorke, Munich; Dr. Ziemssen, Wiesban; Professor Sir George McLeod, Dr. Cameron, M.P.,

Dr Farquaharson, M.P., &c. ofessor Banks, in opening the proceedings, congratulated themembers on the increased success of the Association, speally referring to the fact that since last meeting the me bership has increased from 11,000 to nearly 13,000, and to e increased healthiness of the branches in all parts of the wol. In coucluding he congratulated members upon the chee of the distinguished gentleman who was to succeed hirin the chair, and introduced Professor Gairdner, who in

tak g the chair briefly returned thanks.

1. Cameron, M.P., moved, and Sir George Macleod secided, a vote of thanks to Professor Banks, which was

ackowledged.

ANNUAL REPORTS.

. THOMAS BRIDGWATER, Harrow-on-the-Hill, moved the addion of the annual report, which recorded the formation and ecognition of branches in Ceylon, Nova Scotia, Perthship and South Africa. The whole of the United Kingdom, and ndeed, the entire Empire, is now apportioned out into The number of members on the register last year was 11,107; during the year 359 had resigned, 132 had die and 1,649 new members had been elected, leaving the presat number 12,265. The revenue amounted to a total of 28,6)l. 0s. 3d., the expenditure to 26,060l. 17s. 8d., leaving a stilus balance of 2,619%. 2s. 7d.

Ts report and the financial report submitted by Dr.

Con antine were both adopted.

T: report of the Parliamentary Bills Committee was then sublitted, and its adoption moved by Mr. Ernest Hart, cha nan of the committee. The report dealt at considerable lengt with the question of relative rank of army medical offic s, Irish Lunacy Laws, the Lunacy Acts Amendment Bill, the beal Government Bill, more especially in relation to the claus affecting medical officers of health, and other Bills, amoust them being the Pharmaey Bill, regarding which the com ittee reported that :-

In he Bill of 1837 there were certain provisions which indicated, it was ought, a tendency to encrouch on medical rights, especially by inclung materia medica among the courses of instruction and examination, he committee authorised the Chairman to address communications to the rivy Council and to the General Medical Council on this subject, The Ineral Medical Council adopted the views brought before them, and the Psident of the Council, Mr. Marshall, and Dr. Quain, on behalf of that ly, had an interview with the President of the Privy Council. The 11 of 1888 has, the committee were glad to report, been expressly modi I to meet the views which they have put forward on the subject, and flow contains nothing which is in any way objectionable.

M Hart's motion for the adoption of the report was

seconded by Dr. Farquharson, M.P., and Surgeon-Major Ince and Dr. FitzPatrick, of Liverpool, commented upon it, the former expressing the opinion that medical officers of health were not of much good; few of them understood anything about hygienic laws. ("No," and laughter.) "Why, this was the fad of the age. (Laughter.) It was the mania of present-time sanitarians." (Laughter.) As to the rank in the Army Medical Department, he considered that it depended altogether upon ability, and if a man could not rise above the ordinary position he was not worth the price of his lancet. (Laughter and applause.)

The report of the Inebriates' Legislation Committee was also adopted, as was also the report of the Scientific Investigations Committee, which contained particulars regarding the progress of investigations made by the various gentlemen who had received grants in aid from the committee. In moving the adoption of the report of the Collective Investigations Committee, Dr. Alfred Carpenter, Croydon, said that that would probably be the last report of that committee. They felt that they were endeavouring to cover too much ground, and obtaining information at a time when members of the Association were not likely to adopt suggestions made. Reports would therefore only be continued until the work on hand was complete.

After some further business the meeting adjourned until

8.30 P.M., when Professor Gairdner delivered

THE PRESIDENTIAL ADDRESS.

After some personal remarks, and a very brief history of the city in which the Association had assembled, Professor Gairdner discussed at some length the topic of "The physician as naturalist." This title, he said, recalled the time when the healer of the sick was regarded as in a very special if not exclusive sense a student of nature. He set himself to inquire how the idea represented in the word physic came first into exercise, and how it got floated into such a degree of popularity as not only to have practically displaced to a considerable extent in our own language the much older one of medicine—that is, healing—as applied to the art itself, but to have got itself into currency as applied to the very tools of the art, the drugs with which the physician, so called, was supposed mainly to work his cures. It is surely a very marked instance of what the late Archbishop Trench ealled the degeneration of words that in the course of ages all that nasty stuff which the Doctor Slops of the past made it a duty to send remorselessly down the throats of the lieges, whether in the form of pill, powder, or potion, should have got itself called by the name of physic—that is Nature's remedies; while it is the very irony of historical fate that this word, in this sense of it, should now be current in these islands only. The Professor went on to sketch the history of the healing art from the time of Hippocrates downwards, arguing that the earliest tradition demanded that the healer or physician of the highest class ought also to be, in a very real sense of the word, a naturalist, or perhaps a man of science (physical science being, of course, understood); that it is his perogative to be trained and exercised after the best manner and according to the most thorough discipline of the science of his age; and that he ought to be (or, at least, that he has been in very remote times) regarded as being admirable and trustworthy as a healer or physician, chiefly in proportion to the confidence reposed in him as a naturalist—that is, a humble, reverent, and exact follower and student of nature. Surgeons, apothecaries, monks, and empirics had at one time threatened to wipe out the physician altogether, but the study of nature as a basis for the training of the physician was again asserting itself.

When we consider, the President continued, how completely modern science has demonstrated the subordination of living bodies and physiological processes, not to a wholly detached set of laws termed vital, but to all the most elementary laws of matter; and, further, the correlation of all the physical forces throughout the universe, so that the living body and its environment act and react on each other throughout infinite space and time, it will be readily admitted, I think, that some kind of systematised instruction in physics, and not a mere elementary examination in mechanies, should be an essential part of an education with a view to the medical profession. And when we further consider that most of the great advances in medical diagnosis in the present day, through the stethoscope, microscope,

laryngoscope, ophthalmoscope, spliygmograph, electricity as applied to muscle and nerve, &c., involve applications of pure physics which are neither remote from practice nor yet very easily mastered by the beginner; and that, in the case of electricity and other physical reagents, even heat and cold, &c., we are every day extending the domain of these sciences in therapeutics, and still more perhaps in preventive medicine and sanitary science, their claim for an extended recognition in teaching seems to be enormously enhanced.

After pronouncing a warm eulogy on the life and work and character of Darwin, the Professor branched into theological matters, urging that it was a high part of the physician's duties to assist in the reconstruction of faith free from the pernicious despotism of dead orthodoxies.

In connection with the meeting there was on this, as on previous occasions, an

ANNUAL MUSEUM.

This is the professional title for an exhibition which is one of the most attractive features of the annual gathering, and it must be said at the outset that the Glasgow "Museum" surpasses many of its predecessors in variety and excellence of the exhibits. Taking them in the order that we find them in the catalogue, we come first to section A, comprising

Foods and Drugs.

Allen & Hanburys, Plough Court, E.C., have an important exhibit in the examination hall, which comprises most of the preparations, such as Byno-pancreatin and Byno-pepsin, which the firm have popularised during the past few years, and in addition thereto they exhibit a number of novelties which attracted considerable attention. "Cascada" is the name under which the firm introduce tasteless preparations of cascara sagrada, a palatable Cascada wine being the form which we believe will be much run after, as it is sufficiently weak and pleasant to be taken as a table wine, and yet so active that prescribers and patients alike will recognise its value. This may be said to be the novelty which received most attention at this stand, but the "soluble" pills (a branch which the firm are just going into on a large scale), glass capsules of various volatile remedies, and several new granular effervescing preparations were not less noteworthy parts of the imposing exhibit.

Anderson & Adams, Dublin, exhibited Maxwell's chloride of ammonium inhaler, which is not more than a fortnight old. This is simply a wide glass tube with an inhaling tube at one end, and provision on one side for admitting crystallised ammonium chloride. This on being heated by a spirit lamp placed below is converted into perfectly neutral and anhydrous vapour. This is undoubtedly a step in advance, but the inhaler is apt to give off too much of the vapour, and this is not pleasant.

The Apollinaris Company (Limited) occupy one of the best stands in the examination hall with a well-arranged collection of Apollinaris, Friedrichshall, and Hunyadi-Janos waters; and Armbrecht Nelson & Co., of 2 Duke Street, Grosvenor Square, W., were in evidence with the different varieties of their coca wine, which medical men appear to be very fond of sampling as well as prescribing—if we may judge by the brisk business which went on at this stand.

Brand & Co., 11 Stanhope Street, Mayfair, exhibited their well-known dietetic specialities for invalids, to which they have recently added several highly nutritious concentrated broths, of which veal, mutton, chicken, and game form the basis. Beef bouillon is another recent introduction by this firm, and its cheapness is likely to assist in making its good qualities known. The whole exhibit was very attractive and well attended to.

 $\bar{\mathbf{F}}$. Bayer & Co., of Elberfeld, exhibit phenacetin and sulphonal.

Burroughs, Wellcome & Co., as hitherto, represented not only themselves, but many other firms, such as Bishop & Sons, Benno-Jaffe & Darmstadter, Fairchild Brothers & Foster, Fellows' Manufacturing Company, & L., and their half-dozen attendants appeared to be constantly employed in describing the exhibits to visitors. In addition to elixoids, hypodermic tabloids, ordinary tabloids, valoid fluid extracts, and tabloid triturates, the artistically arranged stand contained samples of the manufactures of the firms named, and a general selection of surgical and therapeutical noveltics. Thus there was salol in various forms, as well as sulphonal,

and zyminised suppositories (with cacao butter basis) for rectal alimentation. Lawton's absorbent cotton and a new paper-fibre lint for dentists' use (it is an excellent waterabsorber) represented one class of goods, while the combined properties of lanoline and hazeline were illustrated in a new ointment of these substances which the firm have just introduced, and which Dr. Ward Cousin proposes to use in the treatment of homorrhoids, the ointment being introduced by means of an instrument which he has specially designed for the purpose. Medicine-cases formed a goodly part of the exhibit, these ranging in all sizes from the tiny cigarette-case of tabloid triturates to the Livingstone medicine chest, containing a full assortment of medicines for treatment of the diseases incident to tropical climates. The firm were lavish in the distribution of specimens of their products, and the accessories which they threw in included a photographic souvenir of Glasgow and the Association meeting, and copies of the prescription-book which was referred to a few weeks Their prescription-writing desk occupied a commanding position on the top of the staircase, where it was closely examined.

The Chemical Carbon Company, of 62 Holborn Viaduct, E.C., exhibited in the marquee in the grounds, wherein sanitary appliances generally were collected, a very complete series of the vapour cones which they have recently introduced. These are hollow cones of carbon mixture (such as fumigating pastilles are made of) containing in the "hollow" a glass vessel or material which it is desired to vaporise. On lighting the apex of the cone the seal of the glass vessel is melted, and the contents are slowly vaporised. The idea is exceedingly ingenious, and the manufacturers have enhanced the value of their ingenuity by producing a great variety of eones for perfuming, fumigating, disinfecting, and medicinal It is evident that the applications to which these cones may be put are very varied, and as the vapours are in all eases slowly and regularly produced, there is no fear of suffocation with those of the more potent character (bromine and sulphurous acid, for example). The combinations as a whole have been well selected, regard being paid more especially to the atmospheric requirements of patients suffering from pulmonary affections.

Thos. Christy & Co., of Lime Street, E.C., were in evidence with an imposing exhibit which contains fewer crude materials than we remember to have seen in any of their previous exhibits; fluid extracts (or other suitable preparations) of new vegetable remedies formed, indeed, the principal part of their exhibit, and we take it that this indicates a departure on the part of the firm which is destined to add to their reputation. The oddities of materia medica were not wanting, however; there was erythrophleeine in beautiful white crystals—an ounce, or thereabouts—sufficient evidence that there is something in kaya poison—and a collection of varieties of strophanthus seeds, which the catalogue increased in number by informing us that they included "konabe," "glabious of Gaboon," and "woolly of East Coast." On be half of Mr. Trommsdorff the firm exhibited a series of metallic salts of soziodol, and specimens of strophanthin and pure aconite; for Messrs. Howards & Sons, of Stratford, they exhibited beautifully crystalline caffeine, the first made in this country from denatured tea; and for Lloyd Bros, of Cincinnati, they exhibited eclectic resinoids. We were shown the latest combination of Chaulmugra oil, in which the presence of wool fat materially assists the absorption of the oil, a matter otherwise of considerable difficulty.

Corbyn, Stacey & Co. occupied a very large space with an exhibit of drugs and preparations illustrative of the 24th edition of "Notes" on remedies of recent introduction. Amongst the latest of their novelties are lozenges, each one of which represents 30 grains of compound liquorice powder, and an elixir and effervescing preparation of antipyrinthe latter at present somewhat run after by medical men, and shown by most of the exhibitors in the museum. Dahl's Agency exhibited their dyspepsia cakes, and Denaeyer's Peptones Company (Limited), 118 Bishopsgate Street, E.C.,

showed their sterilised preparations.

Evans, Sons & Co. and their associate firms made an attractive, though small, show of fluid extracts, suppositories, liquors, effervescing preparations, and various other Pharmacopocial preparations. There were also shown specimens of ointments made five years ago with fossiline, which do not yet show evidence of change. To these we may add speci-

nens of rare drugs and a complete assortment of Monterrat lime-fruit juice and its preparations, which occupied a eparate stand. The case on which the firm showed their harmacopæial preparations was a good specimen of cabinet vork, such as they produce in their sphere as shop-fitters.

Ferris, Boorne, Townsend & Boucher had two exhibits, one comprising a gruesome assortment of surgical instrunents, and the other a more pleasant to look upon selection of their pharmaceutieal products. The latter were representative of the medicaments which form the subject of 'Pocket Therapeutic Notes," a handsome booklet which the irm have recently published as a guide to medical men. Apart from the universal medicines therein mentioned, we noticed in the exhibit such preparations as transparent shlorodyne (amber coloured and soluble), mist. bismuthi co. romat., syr. hypophos. comp., and granular effervescent antipyrin. The firm's cascara speciality is a chocolate—quite a bleasant way of taking the aperient.

C. Green & Co, Tower Chambers, Moorgate Street, E.C., xhibited several of the better-known liquors as well as typodermic solutions of some forty different kinds, the reculiarity of which is that they remain permanently bright and unaltered even after reasonable exposure. For the injection of these they offered a special syringe with several tubes of the more frequently used solutions in a single case.

C. J. Hewlett & Sons showed in an upright case many of their harmaceutical preparations, several of which have become o popular as to be universally imitated. Amongst those hich do not seem to be so well known is ung. hæmatoxyli o., in which tolu, balsam, and logwood are excellently comined to form an ointment of agreeable odour, which has een found of great service as an astringent application to ancerous surfaces. The miscible liquid extract of cinchona hade by this firm is also a preparation worthy of note.

Adjacent to Messrs, Armbrecht Nelson & Co.'s exhibit lessrs, Simon Henderson & Sons show their "Perfect food iscuits" and "Wheatina biscuits." These biscuits are made rom a flour manufactured so as to eliminate the indigestible ad useless bran and retain all the nutritive value of the heat. In the case of the "Perfect food biscuits," the rocess for the making of which is the subject of a patent, in manufacturers have carried out the happy idea of adding efficient gluten to make up for the deficiency in this in the heat, so as to have the constituents of the biscuits in the reparations necessary to maintain the body in health. They positive, in fact, an ideal dietary. They promise to be a stinct and valuable addition to the food resources of those ho have occasionally to do long spells of work without aving time for regular meals.

Hockin, Wilson & Co.'s "soluble" preparations of podoyllin were not seen to so much advantage in the museum

should have been the case.

Ingram & Royle showed, in conjunction with the Glasgow pothecaries Company, about a dozen of the mineral waters r which they are agents in this country, and the exhibit as well arranged and attractive.

King & Co. (Limited) showed in a very artistic fashion an sortment of Edwards's desiccated soups, in which medical

en took great interest.

Loeflund & Co.'s stand contained the malt and milk pretrations which they have exhibited on previous occasions, d a new preparation, "Alpine milk biscuits," in powder m. This is a children's food, of which milk solids to the tent of 25 per cent. and wheaten flour are the bases. The od is very nutritious and easy of digestion, having already dergone to a certain degree such modification as will assist i digestion.

Lorimer & Co. occupy an immense stretch of counter space the their specialities, the more important of which are luor cascaræ sagradæ dulcis, which is palatable and free 1m bitterness; liq. opii dialysatus, in which the morphine dists as the natural salt; Lorimer's hypophosphites, coca ne, and other preparations of coca. It is difficult to say that this firm does not manufacture in the way of pharmatical preparations, and there is not apopular craze or new charture which they do not endeavour to take advantage of For example, they exhibited flexible capsules alongside egant pearl-coated pills, and these were cheek by jowly the compressed pellets, and these with medicated lozenges. Incentrated liquors for the preparation of syrups, &c., were pominent, and the iodised "oil" which has lately been

attracting attention, and for which they are the agents, was also shown. This "oil" (we purposely quote the word) is not in the strict sense of the term an oil, but an aqueous fluid of oily consistence, which mixes readily with water, and may even be mixed with oil. Various statements have been made regarding the preparation in medical journals, as well as by the manufacturers, chiefly regarding the percentage of pure iodine in the "oil." We are unable to confirm these statements so far as free iodine is concerned, the preparation containing a mere trace of it, the metalloid existing as an alkaline iodide. The chief value of the preparation lies in the fact that it is an excellent liquid substitute for lin. potass, iodidi cum sapone, and being unalterable it may in many cases be preferred to that preparation.

John McMillan, Glasgow, had an exhibit of pharmaceutical preparations (chiefly of a kind ready for dispensing) which attracted considerable attention from the fact that the stand was curtained with Milne's antiseptic dressings. The exhibit as a whole was an exceedingly creditable one, and the preparations showed evidence of being made with great care.

Henri Nestlé, of 9 Snow Hill, E.C., exhibited infants' food and condensed milk; and Mr. D. Nithsdale, Perth, showed cod-liver oil chocolate cakes, each containing a large teaspoonful of the oil, yet the chocolate is eatable. Oppenheimer Brothers exhibited their liquor specialities, euonymin

and pepsin liquors particularly.

John Richardson & Co., Leicester, had an exceedingly attractive exhibit at the head of the staircase leading to the examination hall. In this coated pills and portable medicine cases containing pills were prominent; but the preparations travelled well over the whole range of galenical products, such articles as U.S. Pharmacopoia liquid extracts being included, and it may be said that all showed care in manufacture. Attraction was added to the exhibit by the presence of a new dispensing cabinet for medical men. In a surface space of 4 feet 2 inches the designers have succeeded in supplying physicians who dispense their own prescriptions with 112 bottles of medicines, 18 pill bottles, and 13 ointment bottles. In addition to these there are many drawers, and room for scales, mortars, bottles, labels, and other dispensing requisites—verily a multum in parco.

James Robertson & Co., 35 George Street, Edinburgh, whose flexible capsules were recently the subject of favourable comment in this journal, showed these and their gelatine-coated pills, as well as several other pharmaceutical preparations, including granular effervescing preparations and syrups, amongst the latter being a syrup of the hydriodates of iron, quinine, and strychnine, in which the alkaloidal iodides are so combined that precipitation is avoided. Robinson & Sons, of Chesterfield, exhibited a wonderful variety of lints, cotton wools, and bandages, as well as Gamgee tissue of two kinds, one (invented by Mr. Gamgee only a few weeks before his death) being perforated so as to

absorb thick pus.

W. E. Sacker, 79 Fenchurch Street, exhibited compressed pellets and syrups, his stand including Schiefflins' products. A. de St. Dalmas, Leicester, exhibited various kinds of plaster and wound pads. The Sanitary Wood Wool Company (Limited), of Hatton Garden, showed quite a large variety of Hartmann's products of wood wool which they manufacture. These are chiefly intended for surgical purposes or accouchements, and, as the material is remarkably absorbent and comparatively cheap, the uses of it are likely to increase. The wood wool is in some cases charged with mercuric chloride, the "sublimate lotiforms" (pledgets of wool and gauze) being a convenient form of carrying the antiseptic for use in preparing injections or lotions.

The Glasgow Apothecaries' Company exhibited a varied collection of drugs, chemicals and pharmaceutical prepara-

tions, and recess labelled bottles.

The Sanitas Company (Limited) exhibited their well-known preparations both in the marquee (wherein sanitary appliances were collected) and in the examination hall. Along with these "Nature's Hygiene" occupied a place.

Savory & Moore had one of the most interesting collec-

Savory & Moore had one of the most interesting collections in the museum. Apart from the specialities (dietetic and pharmaceutical) with which their name is associated, they showed a very complete collection of surgical impedimenta supplied to the army and volunteer service, and a large number of medicine chests, including an exceedingly compact one supplied to the Khedive of Egypt. Parke's

chemical cabinet for the analysis of air, water, &c., was also shown, and in this department a speciality was made of standard volumetric solutions, test solutions, and all solutions and chemicals, as well as instruments required for urine

analysis.

W. Schacht & Co., 26 Finsbury Pavement, E.C., exhibited Kronenquelle water, and several creditable pharmaceutical preparatious, including dialysed ergotin for hypodermic use, and Dresche's solution of iron. G. & G. Stern made a somewhat imposing exhibit of pumiline essence and its combinations, and the Swiss Milk Company exhibited their powdered milk preparations in the marquee.

The Viking Food and Essence Company showed all their preparations of beef, to which they have lately added nutrient suppositories, each of which represents 3 oz. of peptonised beef-tea. Their exhibit was an attractive and

well patronised one.

W. Warner & Co., through their agents, F. Newbery & Sons, exhibited their sugar-coated pills and other preparations. The exhibit stood close to the door of the examination hall, and being somewhat imposing, early caught the eye of the visitor and received attention. Amongst the preparations other than pills were bromo soda and bromo potassium.

Instruments.

Surgical and other instruments were exhibited in Section E. although, as has been already mentioned, some were to be found amongst food and drugs. Mr. Phillips, the junior partner of F. Darton & Co., attended with a varied collection of clinical thermometers, optical instruments, and constant current batteries for surgical use. The clinical thermometers, we observed, were varied as to size, and most of them were accompanied by Kew certificates, which showed that the indexes required no correction In this department Godfrey & Cooke also exhibited their patent chloride of ammonium inhaler, which they have now adapted for use as an eye vapour-bath. For this purpose an eye-bath with hollow stem is attached to an indiarubber bellows, and by working the latter the vapour of the ammonium chloride is directed to the eye, upon which it is stated to have a soothing effect. Lynch & Co, of Aldersgate Street, appear for the first time at these gatherings with an astonishing variety of surgical instruments, which indicates how thoroughly the firm take up this branch of business. Their exhibit includes many important and expensive instruments which our space does not allow us to describe, Expense, however, was not tho prevailing character of the collection, for we picked up such lots as a 2s. 6d. throat spray, a 2s. 6d. clinical thermometer in a nickel case, and a 2s. 6d. hypodermic syringe—all of them satisfactory articles. The firm have just introduced a seamless enema syringe with glass valve, of which we expect to hear more. In this section there are several excellent exhibits of microscopes, by Beck, Crouch, and others; and altogether the museum reflects great credit on those who have formed it.

PAPERS.

Amongst the papers read at the meeting was one by Mr. A. P. Luff, B.Sc., M.B., &c., Lecturer on Medical Jurisprudence and Toxicology at St. Mary's Hospital. In this paper Mr. Luff dealt with the subject of

THE PTOMAINES IN RELATION TO DISEASE.

In a similar paper contributed last session to the Chemists' Assistants' Association, the author referred more particularly to the chemical aspects of the subject, but on this occasion he took up the medical side of it. Assuming that many of the changes observed in the treatment of disease are due to chemical processes occurring within the body, Mr. Luff puts the question, Are we not proceed ling in the right direction by endeavouring to ascertain (a) the causes that start those chemical processes; and (b) the actual products of those chemical processes and the properties of those products? If the treatment of disease resolves itself into a combat with definite chemical compounds, an accurate knowledge of the properties of which we have obtained, then the therapeutical treatment of disease will be based upon much surer and more definite principles than the treatment of complex vital processes of whose nature we have but a vague and uncertain knowledge. A brief reference to the properties of the ptomaines showed

that they have a potent influence in the creation and the symptoms of some diseases, and the elimination of analogous substances from the body gave a glimpse of known results due to the presence of foreign substances. The author, therefore, surmised that if we become acquainted with the ptomaines and their properties, then the discovery of antidotes that could render them insoluble or innocuous would lead us to the direct treatment of the infectious fevers, and would constitute a great advance in medical science.

In a paper on

SCABIES AND ITS TREATMENT, By J. Brindley James, M.R.C.S,

the author dealt summarily with one of the most frequent and most troublesome affections which daily cross the path and exercise the patience of the medical practitioner, especially in rural practice. Entering fully into practical details respecting the excellent system of rapid and thorough treatment pursued with such signal success at the celebrated cutaneous Hopital St. Louis, in Paris, and giving the favourite recipes advised by Cazenove, Dorublueth, and others, he demonstrated with satisfactory clearness the readiness with which any village practitioner could with very little inconvenience organise a curative process on his own premises, successfully emulating the process which has worked so admirably at St. Louis.

A NEW REMEDY FOR HEART-DISEASE

was the subject of a paper contributed by Dr. Orlando Jones, of Harrogate. The remedy is Cactus grandiflorus, a native of Jamaica and Vera Cruz. A good description of this plant is given by Grim. Its flowers are remarkable, being very large, the calyx measuring about a foot in diameter. It is possible, Dr. Jones thinks, that other plants of this order may be equally valuable, as possessing properties that will control the heart's action, for Professor Robert Bentley states that the fruits of many species are useful in febrile diseases. Dr. Jones gave notes of cases in which the remedy had been used, and the results appeared to show that this remedy may be used as a substitute for digitalis when that remedy is inapplicable owing to its overstimulating action, and in cases of feeble heart. The final stage of the action of the drug is that it strengthens the heart, and consequently improves the circulation, so that the result of the exhibition of cactus is the reverse of that seen in digitalis.

THE BATH WATERS.

Dr. Douglas Kerr, of Bath, read a very interesting paper, in which he gave a short outline of the system of hydrotherapeutics practised at Bath, more especially in relation to the improved methods of bathing recently introduced, and spoke also of the advantages of thermal treatment in the case of patients recovering from acute rheumatism. From this paper it appears that bathing is carried on in Bath chiefly during the colder period of the year-the season beginning with September and ending with June. The Bath waters for medicinal purposes are applied both internally and externally. Internally the waters are alterative and tonic; they stimulate the secretions of the body, having a very marked effect upon the kidneys; they also improve the appetite and promote digestion. Externally the waters are used in baths and douches of every variety. The corporation are at present engaged in building a new suite of baths at a cost of 23,000 ℓ . This suite will contain every modern improvement in bathing, such as (1) massage douches on the Aix-les-Bains system; (2) local vapour bath; (3) steam bath; and (4) circular spray. When complete the baths will be amongst the most perfect in Europe.

Dr. R. B. Macpherson, of Cambuslang, contributed a paper

THE WANT OF UNIFORMITY IN THE STRENGTH OF MEDICINAL SUBSTANCES.

The author first pointed out the importance of definite and uniform strength in official preparations. Though this principle is sufficiently recognised in the Pharmacopoolia, he is strongly of opinion that in reality it is not attained to such a degree as it might be, and he holds with Dr. Whitla that "the indication at present is not for more new remedies, but for a better and more precise knowledge

o those already placed in our hands." This want of unif mity in strength does not apply so much to medicinal sistances of definite chemical composition, though we know t these are largely subject to accidental impurities, adult ations, and deteriorations; but greater want of uniformity ny be looked for in medicines derived from vegetable or a mal sources. Pereira, Lauder Brunton, and Professor Entley were quoted with regard to the natural variations irlrugs, and the author regrets that more scientific care is n bestowed upon the cultivation, collection, and preparatin of drugs. As indicating the importance of care in the ctivation several interesting examples were cited of drugs wich exhibit great variations in the proportions of active piciple contained in them. In certain localities the p sonous properties of aconitum napellus are not developed, allit is so entirely innocuous that it is used as a potherb or ean as "a pleasant tonic." The hemp plant grown in Lia is vastly more potent than that cultivated in Europe, tl latter having little or no narcotic power; and even in hia the plant grown in the mountains affords a resin not oainable from that grown on the plains. The proption of alkaloids in cinchona barks is liable to such gut variation, that, according to Flückiger and Hanbury, it is mpossible to state even approximately any constant percetage of alkaloids in any given bark, and De Vry found it o vary in C. officinalis from 11.96 per cent. down to le than I per cent. The great variations in activity of the h scyamus and digitalis leaves of commerce were mentioned, ar several examples quoted illustrating the possible variatis in the qualities of drugs due to substitutions or adulter-The investigation carried out by Mr. Seaton and M Otto Hehner was next referred to, in which out of fifty precriptions sent out to various shops in the parish of Ollsea no fewer than seventeen were incorrectly dispensed, thigh none were scheduled as incorrect if the chief constrents proved to be within 10 per cent, of the amount orared. In one case the amount of the drug supplied was le by 85 per cent, and in another 57 per cent. more than th ordered. The author thinks such wide divergeles more probably due to variations in drugs or progrations than to more inaccuracies in weighing or misuring or to general carelessness in dispensing. The autor's own investigation of a number of official pre-pations of active drugs, including aconite, digitatis, or m, nux vomica, and belladonna was then detailed. The marked differences in the proportion of active priciple present in the different specimens leads him to the co lusion that these preparations are highly unsatisfactory, an that the question of the possibility of rendering the prarations of active drugs of more certain and uniform strigth is one entitled to serious consideration. In conclusti, he makes the following suggestions:—(1) That all prarations of active drugs should be standardised, as has alludy been done in the case of nux vomica. (2) That offial inspectors and analysts of drugs should be established, whee duty it should be to see that drugs and chemicals us in medicine are of sufficient purity, and that the stalard preparations are really what they pretend to be. Sur supervision by the State would be much more legitime; and worthy than the present system, by which a Go:rnment stamp affixed to some worthless or hurtful secret rendy conveys a false impression of its value to an ignorant puic. (3) That individually medical men should take a clor interest in the dispensing of their prescriptions, seeing the they are made up by good houses. Dispensing by doors, though in many cases a necessity, was deprecated, an the education of the public by the profession was ad cated, so that they may learn to avoid "co-operative" and cheap drug stores," and may come to recognise in the ph macist not an ordinary tradesman but a scientific wo er, for whose knowledge, experience, and care they sheld be ready to pay with no grudging hand.

POCTOR always finds that there's money in his coughers.

(E of the latest uses of saccharin is as an addition to why in place of liqueurs. A $\frac{1}{4}$ oz suffices for a hogshead of hisky, and it is said that it immediately increases the val; of the article by exerting a maturing influence upon the pirits. It is certain, at least, that it mellows the flavour of te spirits considerably.

BRITISH AND FOREIGN CONSULS' REPORTS.

ROUMANIA.

Drugs and Chemicals. The imports of drugs, chemicals, and drysalteries into Roumania during the years 1836 and 1887 have been as follows:—

_		188	83	18	37
Vegetable essences and drugs Pertumery Chemical products Dyes, varnish, &c. Oil, tallow, wax, &c.	1	Fons 572 37 5,476 ,177 2,830	£ 57,177 9.300 125,358 57,357 140,209	Tons 1,999 29 2,237 1,708 2,358	£ 72, 772 6,988 148,591 73,061 104, 7 70

TURKEY IN ASIA.

Competition is so sharp among the native firms Cutting that there is a continual tendency to substitute Prices and an inferior and cheaper class of goods for those Famine. now in vogue, and no sooner is an article imported which is found to obtain a ready sale, than hosts of competitors introduce goods of similar patterns or kinds but of inferior quality, and therefore cheaper. The merchants cut each other's throats, with the result that profits are infinitesimal, and that in many cases formerly lucrative branches of trade are abandoned. During the past year there was an absolute famine in Cilicia and the south of Asia Minor generally, owing to drought. The poverty engendered by the famine caused 60 per cent. diminution in the imports of European goods into Anatolia, and, as that district is chiefly supplied with this class of goods from Beyrout, the disaster affected Beyrout mcrchants and the total of imports most seriously.

No consular report from the Turkish Empire is

Briberycomplete without a reference to the bribery, and Corcorruption, and incompetence prevailing in ruption. official circles, and it is therefore not surprising to hear that the import trade is seriously affected by the system of valuation of goods which now obtains in the Custom-house for the levying of the ad valorem import duty. This system has been in vogue since the expiration of the commercial treaty with Turkey in 1884. Previously the ad valorem duty was paid according to tariff; now every bale and package has to be opened, and its contents completely unpacked and estimated, a system which puts a premium on dishonesty. The officials place every kind of difficulty in the way of the merchants retiring their goods, and payment by valuation gives them every opportunity they can possibly want. They cause endless delays, they estimate at double or treble values, they refuse to accept invoices; and finally, in the absence of a bribe, the whole business is gone through again, until at length the merchants are invariably compelled to comply with their demands in sheer selfdefence. Complaint is useless, as the employés know their power, and he who complained would rue it in the future. It may be said that, however great the Custom-house difficulties may be, they will not affect the volume of trade, as the market will always be supplied. But as a matter of fact they do. Merchants refuse to take risks under these circumstances, either as regards the quantity or the quality of the goods they bring out. They will not import more goods than they are sure of selling, and many of the more valuable kinds of merchandise they abstain from ordering altogther, as the loss by theft and damage sustained in the Customhouse is so great that they cannot realise a profit. The chief losers are the manufacturers in the exporting countries, and British trade certainly suffers a serious diminution from this cause.

Liquorice Trade Dying.

The liquorice trade has completely died out as far as the Acre district is concerned, the exports in 1887 being too small to be worth mention. The cause of this is the heavy fall in the price of the article in America. About 8,000 tons were exported from Beyrout and Tripoli, but the business is no longer profitable.

TRADE "SANITAS" MARK

DISINFECTANTS

(FLUIDS, POWDER, SOAPS), NON-POISONOUS, PLEASANT, AND BEST. Gold Medals, Calcutta 1883-84, Paris 1885, Antwerp 1886.

KINGZETT'S BACTERICIDES

Particulars sent on application to

THE "SANITAS" COMPANY LIMITED, Letchford's Buildings, Bethnal Green, London.

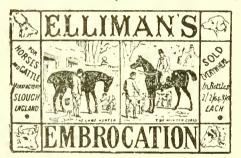
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Apollinaris "THE QUEEN OF TABLE WATERS."

The filling at the Apollinaris Spring during the year 1887 amounted to

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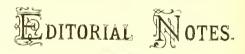
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A GERMAN PHARMACEUTICAL INVASION.

A NEW alarm was offered for chemists' consumption by the letter we published last weck over the signature "Quod Erat Demonstrandum." Our correspondent, it must be admitted, made the most of his materials. Basing his remarks on the recent decision of the Pharmaceutical Council in a particular case to accept evidence of having passed German examinations in lieu of the home Preliminary, "Q. E. D." raised before us the terrible bogey of a German pharmaceutical invasion, corresponding in its character and effects with the competition from the Fatherland which has played havoc among the employés in other branches of commerce. The writer of the letter was evidently himself conversant with German pharmacy as well as with German education, and the London correspondent of the Pharmaceutische Zeitung, who replies to him this week, certainly fails to prove that our correspondent was "ill informed," as he asserts. "Q. E. D." showed forcibly that there is practical danger to the public in accepting these German certificates of general education, chiefly because we cannot be assured that our future Apotheker-chemist will be sound enough in his English to properly supply the needs of British customers. This danger is not altogether a fanciful one. The German who has been excused his "Preliminary" may straight way submit himself for the qualifying examination. He must produce a certificate of three years' service in the translation and dispensing of prescriptions, but that certificate need not be an English one, nor need the translation have been from Latin into English. Then, again, notwithstanding our abounding respect for the Touton generally, we confess that we have some doubt as to the thoroughness of the man who could have passed our pharmaceutical and medical preliminaries "with ease" at the mature age of ten or twelve, according to the contention of the *Pharmaceutische Zeitung*. The other argument advanced by "Q. E. D.," that no similar favour is shown in Germany to Englishmen, cannot fail to be a popular one, unsound though it is. But the German responder this week hardly turns the flank of this position by showing that it is the Government and not any private society which is responsible for the regulations which would check any probable British invasion of German pharmacy.

There is not much reason in the national prejudice which decries the appearance of foreigners in our midst. In a country which has resources, the increase of population implies the development of wealth; and if Germany will take the trouble and bear the expense of raising and training the men who, when they reach a productive age, bring their talents to this market, so much the better for England, and so much the worse for Germany, in point of national economy. But it cannot be denied that, if the nation benefits, classes and individuals must suffer; and we imagine that no one can maintain that British pharmacy could be improved by more competition than that which at present surrounds it. Is, then, such a thing as a German pharmaceutical invasion at all possible or probable? Our correspondent this week scouts the idea, but he admits that "numerous applications are constantly eaching him," asking how can pharmacists obtain situations nere. It happened, too, that last week the English Council nad to follow the precedent set in Mr. Hebler's case in regard o a Swiss gentleman who wished to avoid the Preliminary We certainly see nothing very outrageous in the supposition hat if we make the path of pharmacy in this country exeptionally smooth for the foreigner, he, who is legislaively blocked from a free pursuance of his calling n his own land, and conscious, as he seems to e, of his own infinite superiority to ourselves nay take rather unexpected advantage of the opportunity ffered to him. For ourselves, we believe that the majority f British pharmacists will be able to stand the competition f any foreigners, and will ultimately give a good account f themselves; but we are very much inclined to doubt ither the justice or the wisdom of making special exceptions n behalf of any class or race—exceptions which are sure to ecome some day awkward precedents, and which do unuestionably contravene the spirit of our pharmacy reguations.

COAL-TAR CHEMISTRY.

DURING the past twenty-five years the study of chemistry y experts has been to a very great extent limited to the judy of the products of coal-tar. And among the abundant sults of this investigation contributions to almost every ranch of art, science, and industry have been made. Just t present the most richly favoured recipient of the coal-tar ivestigator's favours is the profession of medicine. Among ne many synthetical compounds which have been formed to id in the treatment of disease, many have probably come to ay; and of these the one which seems to have secured the rmest foothold is antipyrin.

Our attention is particularly directed to this subject at this oment by the receipt from Messrs. Meister Lucius & rüning, of Höchst-am-Main, the patentees and manucturers of antipyrin, of a most artistically produced album ontaining views of their works and specimens of silks dyed ith colours of their manufacture, arranged in the form of a erfect spectrum, published as a memorial of the twentyfth anniversary of the foundation of their house. With

the album they give some interesting details of their own history, and as they happen to be among the largest representatives of the manufacture of aniline and other coal-tar products, the record they give has a value outside that of mere personality.

In 1862, when fuchsin was worth 60s. a lb., the firm of Meister Lucius & Brüning was founded, and, curiously enough, in the very first year of its establishment the price of the compound named fell to 24s. for the unit given—an incident by no means favourable to the success of the undertaking. Nevertheless, its growth does not appear to have been appreciably hindered thereby, as we judge on comparing the few buildings shown in the first sketch in the monograph with the small town, covering 60 hectares, which the works and associated structures now form.

The data furnished relating to the production of the crimson dye—fuchsin—already referred to are worth mentioning. In the earliest years of its preparation it was manufactured by heating together 25 lbs. of aniline oil with from 35 to 50 lbs. of arsenic anhydride to 180° C., or thereabouts. The daily output of the material at that time was from 10 to 14 lbs., while in 1872, working with ten vessels, it was increased to nearly 7 cwt. per day. A year previous to the last date the firm were fortunate enough to discover the applicability of nitro-benzol as a substitute for arsenic acid, which eliminated the element of danger in the manufacture and use of the product arising from the employment of so powerful a poison as arsenic.

Of considerable interest, as showing once more what an important bearing the most trivial incidents may have in life, is the history of the body known as "aldehyde green," which may claim the gratitude of the firm as having been a principal lever by which they have raised themselves to their present position. It was known that acetic aldehyde with fuchsin yielded a beautiful blue colour, which unfortunately, however, was rapidly evanescent when exposed to light, and, therefore, inapplicable to general use. While one day complaining to a friend of the fleeting nature of this colour, it was remarked to Usébe, the chemist who was working on the subject, that the similar action of light upon photographs was prevented by fixing the impressions with sodic hyposulphite. Usébe was struck by the observation, and in a spirit of mere experiment tried the process upon the blue colour, and, behold! "aldehyde green" appeared—a material which attracted a great deal of attention for some time. Unfortunately, however, the colour could only be obtained in solution, which, of course, detracted from its general application. This difficulty also was overcome by the observation made in a casual way by Dr. Brüning that a dark precipitate was formed in the solution when an old glove was immersed in it to be dyed. This he traced to the formation of a tannate of aldehyde green, which was thereupon prepared in quantity, introduced into commerce, and largely used.

As the business developed special works had to be constructed for the production of the acids, particularly sulphuric acid, so extensively used. These were completed in 1880, and they form quite a unique specimen among buildings of the kind. Later on, as the industry still increased, the firm was converted into a limited company, the capital of which is now, we believe, 12,000,000 marks; associated works have also been established in Moscow and Paris, which produce the same articles, including antipyrin.

Some idea of the present extent of the works, which are placed upon the river banks, may be obtained from the statement of the fact that there are now engaged in the service of the firm 52 large boilers, while there are also used 92 steam motors and gas engines, representing a force of 1,840-horse power. The workmen number 1,860, the overseers 50, and

the chemists 57. Also in the employ of this house are 9 engineers, and a staff of 86 persons in the offices.

To mention the 1,700 or 1,800 colours which are produced by name would be, of course, impossible, but it is reteworthy that no less than 23,108,000 kilogrammes of sulphuric acid of different strengths and 12,800,000 kilogrammes of other acids were used last year in the industry. Antipyrin, which was first built up here by Knorr in 1833, and the first notices of which appeared in the medical papers of the following year, is the product at these works of chief interest to the pharmacist.

The following figures, which represent the consumption of the materials named, as recorded in the works during the past year, convey an idea of the magnitude of the business:—Of packing material were sent out—25,310 casks, 1,962,000 tins, 803,200 bottles, 25,310 boxes. Of raw material were used—64,230,000 kg. coals, 3,624,000 kg. products of tar distillation, 2,112,000 kg. caustic soda, 350,000 kg. various potash salts, 1,610,000 kg. carbonate of soda, 1,905,000 kg. saltpetre, 12,661,000 kg. sulphide of iron, 1,503,000 kg. iron filings, 309,000 kg. methyl alcohol and spirit, 1,635,000, kg. different chemicals, 10,578,000 kg. rock salt, 4,312,000 kg. lime.

The works have their own railway lines throughout, their own gas-making apparatus, producing 12,000 cubic metres daily, besides electric lighting plant for such rooms as are used for the working or storing of compounds sensitive to light. Every precaution is at hand to enable fires to be successfully combated in their earliest stages. Of course, considering the nature of the substances employed, small fires cannot be wholly prevented from breaking out, but they are scon subdued by the perfect organisation of fire prevention. There are also a number of funds existent, such as that for widows, which was started by the factory with the sum of 7,500%, and which has now passed 12,000%. In the neighbourhood of the works are ninety-four dwelling-houses in which the employés live, and there are also a number of provision stores worked on a co-operative system, by which the profits are divided yearly among the customers. The working hours are nine and a half per day, and the average wages per day paid to each workman is 3s. 1d.

As a contrast to the figures we have quoted, it may be mentioned that when the business was established in 1862 the plant consisted of a small steam-boiler and a 3-horse power engine, and the staff consisted of five workmen, one clerk, and one chemist.

METHYL DRINKING.

The Scottish Leader has again directed very prominent attention to the alleged large consumption of methylated spirit in Edinburgh as a beverage. Last Sunday a special correspondent representing that journal went into the lower parts of the city to ascertain facts. He took with him his empty pint bottle with his coppers, and this is the story he tells:—

"I took care not to appear too reputable. It appears I succeeded—at all events, I had no difficulty in getting into company on equal terms with two men who did not set much store by themselves. They were hanging around a druggist's shop, and a question brought out the fact that they were desperately anxious to obtain some 'dynamite.' I soon learned that they were very familiar with the stuff, although both seemed fairly creditable human types. One was young, raw looking, and not to all appearance a sot. The other was an oldish man, with blazing, intelligent eyes, and a rugged cast of countenance. They might have been of the poorer class tradesmen; they did not look like labourers; probably they lived by their wits. They were searching for methy-

lated spirit; and they told me so at once, and I agreed to join in the quest. They wished the liquor; I desired to get inside the traffic, so we slumped our capital. For obvious reasons my contribution was extremely small; theirs was even less. The whole sum would not have purchased a gill of drinkable whisky; and still we were in hopes of getting two or three gills of liquor that would certainly produce a satisfying degree of intoxication. Our search, however, was not a triumphant progress. It was arranged that my companions should effect the purchase while I waited outside the shops. They were checkmated at the outset; the first druggist refused to sell one drop of methyl; simply could not be persuaded to hear reasons, and so it was at every one of halfa-dozen shops. Sometimes the druggist refused politely but firmly; sometimes in a cross-grained manner. My friends alleged that the spirits were wanted for various purposes; and their reasons were very creditable to their imagination. But they failed all the same, whether they said a great deal or whether they contented themselves with merely producing the empty bottle. Then they became discouraged, and talked about articles that had appeared in the newspaper frightening dealers in methylated spirits. They were very wroth with the druggists for this 'new departure,' though the language they used was much stronger. The shops were shutting up when the church bells began to ring, and we dropped the hunt. My companions were in the dumps, but the older one was willing enough to talk about the morning's experiences, and had very definite views about methyldrinking. Our conversation was jerky and disconnected a bit, but not uninteresting to one wishful of getting thoroughly at the secrets of this trafficking in methylated

"'Well,' I said, 'we've been down on our luck this morning.'—'Yes,' was the reply; 'I don't understand what's up with the druggists. I'm told that some articles appeared in the *Leader* about the drink. The druggists are scared, and no mistake, when they won't sell a drop.'

"'You could get as much as you wanted before?'-'Rather; on any Sunday before there was never any bother.
It's hard that a fellow can't get a drop of drink to wet his
throat on a morning like this. But those who are responsible
for this wou't care, I suppose, if poor folks were to choke for
want of something. It's hard, I say again.'"

The remainder of the conversation between the correspondent and the methyl drinkers goes to show that they buy the spirit partly because it is cheap—they said they could get "blazing fou" on twopennyworth—and partly because they can get nothing else on Sundays. We have reproduced this observer's report because it is about the first definite statement we have had; and it amounts to very nearly—nothing. The Leader published articles on Friday and Saturday of last week containing sensational, but entirely vague, statements as to the extent of the trade, and the report we have quoted was issued on Monday. It is, no doubt, gratifying to the conductors of the Leader to believe that the influence of their paper is so great as their correspondent thinks he found it to be; but it is at least conceivable that the facts are capable of some other conclusion.

In Friday's Leader appeared this paragraph:-

"There are a hundred and sixty-five persons within the revenue collection of Edinburgh who are entitled to retail methylated spirit. Most of these are chemists and druggists, but any person may obtain a licence on payment of the modest sum of ten shillings. It is not flattering to some members of the drug trade, but it is true, that the revenue officials almost prefer lay retailers; that is, they think that in the hands of these retailers there is no danger that the stuff will be tampered with or improperly used."

Is there any foundation at all for this charge against the Edinburgh drug trade? The only evidence we know of is that of the *Leader* man quoted above, who with his associates tried at six likely chemist's shops, and failed to get the spirit at any one. The *Leader* should either justify its attack on the druggists or withdraw it.

We do not mean to doubt the probability of methylated

pirit being consumed to some extent, perhaps to a large xtent, not only in Edinburgh and Glasgow, but in London nd elsewhere. We report a case this week which suggests uite a large traffic in the article in the East-end of London. In moral, physical, and commercial grounds we shall welcome very attempt to expose and put down the abominable busiess, but we do not find ourselves able to compliment the aff of the Scottish Leader on the thoroughness of their forts in the cause.

VACCINATION OF DOGS.

N this age of science made popular, it is astonishing to find large number of dog. owners gladly paying half a guinea to ne most illiterate pretenders to vaccinate their dogs as a reventive of distemper. This we could well understand the animals were inoculated with a protective material r attenuated virus which, after producing a mild attack of istemper, would "protect" from the more virulent and lways dangerous disease known as distemper. Such is not he case, however, nor is it pretended even by the blackmiths and dog-doctors who carry on this lucrative profeson. They simply prick the puppies two or three times ith a lancet dipped in vaccine lymph, as if they were accinating a human being to protect it from small pox. here is no similarity whatever between the vaccine variola f man and distemper of degs. One might as well prick a oldier with a bayonet to prevent him getting shot.

We understand that certain experiments are being conucted by the leading lights of the veterinary world to roduce, if possible, an attenuated distemper lymph or atter that really will prove protective, and this, if sucessful, will be among the greatest feats of the century. It ay not be generally known that such simple and comaratively painless operations as inoculating dogs come ithin the Vivisection Act, and the operator needs to have a cence. Any operation that is not done in the bonâ-fide elief of its efficacy for the cure or amelioration of disease illegal, while the most barbarous practices are daily carried n with impunity, because farriers and others believe they ill do good. One of these curative operations is the cutting pen of a cow's tail, and insertion of pepper and salt and her irritants, to make her "get up." Since the spinal cord oes not extend into the tail at all, the "belief" is founded a the grossest ignorance of anatomy.

THE LIQUORICE INDUSTRY IN ASIA MINOR.

IQUORICE juice is so generally looked upon as the product, lmost exclusively, of Italy and Spain, that most people, even nough they may be dealers in the article, will be surprised to nd that we import, weight for weight, almost as much quorice from Turkey as from Italy, although, of course, the verage value of the Italian product is far higher. Official tatistics disclose the fact that from 1883 to 1887, inclusive, e received from Turkey (in this case almost synonymous ith Smyrna) an aggregate of 5,694,752 lbs. of juice, worth 14,0221., or 45s. 6d. per cwt. on the average; while from Italy ur import during the same period amounted to 6,498,128 lbs, orth 217,403l., or, say, 74s. 6d. per cwt. Spain, whence the lice derives its popular name, is quite sinking into insignifiance as a liquorice-producing country, its aggregate exports o the United Kingdom from 1883 to 1887, inclusive, having een only 399,616 lbs., worth 7,943l.; while last year they vere only 13 cwt., worth 721., or practically so small as to emain without any effect on the course of the market. Turkey in Asia is therefore, with the possible exception of Italy, the largest producer of liquorice in the world. The Smyrna liquorice industry, which represents an annual value of about 160,000l., and gives employment to many hundreds of people, is of comparatively modern origin, and owes its existence to a British merchant named Clark, who, about 1853, conceived the idea of turning into commercial use the vast quantities of liquorice root which he had noticed growing wild in various parts of Anatolia, and especially in the valley of the Mæander, a river famous in classic lore as the site of the cities of Antiochia and Miletus. The natives were totally unacquainted with the value of the root, and to them its existence was a considerable nuisance, the plant being so difficult to destroy that it materially interfered with the tilling of their fields. When, therefore, Mr. Clark, having sent samples of the Anatolian liquorice root to Europe for analysis, and satisfied himself of its commercial value, started a liquorice factory in the small town of Sokia, near the mouth of the Mæander, the natives were only too glad to allow his collectors to take away the roots from their fields free of charge, and the industry during the first years of its existence must have been a very profitable one indeed, for it is said that the gatherers received about 1s. 8d. for every cwt. of root which they brought to the factory, the material costing the firm nothing, and the fresh root yielding about 30 per cent. of juice. For many years Mr. Clark continued to hold a monopoly of this lucrative industry, and upon his retirement he transferred the business to one of his employés, the style being subsequently altered to McAndrew & Forbes. Mr. Clark's successors largely extended the business, establishing juice-boiling establishments at Aidin, Kotchaili, and Nasli, and laying almost the whole of the Mander valley under tribute for the collection of root.

Determined efforts have repeatedly been made to wrest the monopoly from the British firm, but their hold upon the business is so strong as to render serious competition with them a matter of great difficulty. But quite lately an American house has established an export business in roots in the Hermos valley, though its operations do not seem to include the manufacture of juice. A German firm have also within the last few years started a boiling establishment at Omurlu, where about 75 cwt. of root are said to be treated every week. Owing to this competition it is reported that the English firm have been compelled to revise their terms with the farmers for the collection of the root. They now pay them a small royalty, and receive in return the exclusive right of digging for periods extending generally over nine years. The best root is found at Omurlu, Karahait, and Kotcharli in the Mæander valley, and at Menemen, along the course of the Hermos river. The roots are gathered from the middle of September until the middle of April, after which period $_{
m the}$ fields are required for cultivation, and the root, moreover, loses its juice The treatment of liquorice root for shipment or for juice manufacture does not materially differ from the system. obtaining in Italy and other countries. The root is left to dry in the open from the gathering time until June or July, being turned over once a month. It is then dried, pressed, packed in bales of about 2½ cwt., and exported vià Smyrna or Scala Nova, the bulk of the shipments going to the United States, where, since a heavy customs duty was placed upon juice some years ago, both Messrs. McAndrew & Forbes and their American competitors have erected factories for treating the root. The principal consumers of liquorice are the American makers of chewing tobacco, but large quantities are also employed in brewing and for the manufacture of blacking. Since the United States placed a duty upon the juice that preparation is shipped mostly to England

and Germany, Liverpool being the principal centre of the trade. The juice is sold there according to brand, in the same way as the Italian, and the value at present ranges from 29s. to 40s. per cwt. For making juice the roots are cut small, crushed, and placed in a large cauldron holding about 5 cwt., where they are boiled with water for three or four hours, when the liquid is decanted into another container. Another $2\frac{1}{2}$ cwt. of roots, with more water, are then added to the residue in the first eauldron, and after again boiling for a few hours the liquid is added to that in the second boiler, until about six lots have been treated, and the juice in the second container has assumed the consistency of a tough mass. This mass is then decanted into cases lined with paper, and holding about $2\frac{1}{2}$ cwt., where it soon forms a solid block. In 1887 21,480 such cases were exported from Smyrna. The fresh roots yield from 30 to 32 per eent. of juice, and the woody residue is used for fuel. It is estimated that, inclusive of all charges and dues, the cost of the juice to the manufacturers is about 17s. 4d. per cwt., while its selling price at Smyrna averages 33s. 8d. per cwt., thus leaving a large margin of profit, notwithstanding the competition. Some time ago the Turkish finance authorities became alive to the fact that a welcome addition to the exchequer might be obtained by taxing so profitable an industry, and accordingly, after the manner of the Sick Man, an "Ushur," or tithe of 10 per eent., subsequently raised to 20 per cent., has been imposed upon the manufacturers. It is worthy of note that jiquorice root occurs not only in Anatolia, but also in Mesopotamia and Persia (it is now frequently imported here from ports in the Persian Gulf), in the Caucasus, and along the shores of the Caspian, the Baku oil region being especially rich in it.

Smuggling The Customs officers of Harwich have just secured a conviction against five men who, after a long trial before Mr. Justice Manisty and a jury, were found guilty on Wednesday last of various charges connected with smuggling spirits from the Continent. The defendants, who were brought up in custody, were F. A. Venedigger, E. Wolff, L. Joseph, A. Bonnardel, and L. Theophil, and they were charged with being concerned in smuggling 381 gallons of proof spirit, value 3431., and each of them had become liable to a penalty of 1,028l., being treble the amount of the value and the duty. The fraud was said to have been carried out in an ingenious manner, On May 3 last a bill of lading was sent for 19 baskets, containing tins of olive oil, which were to be shipped at Antwerp on board the steamer Normich. The vessel arrived at Harwich with the goods on May 4, which were sent up by railway to Bishopsgate Street. From thence the baskets were carried to a small warehouse, which had been rented at 17 Broad Street, Bloomsbury, and then to a similar warehouse at 23A Prince's Square, Cable Street, St. George's-in-the-East. About a quarter of an hour after they arrived at this place Mr. Llewellyn, a Customs officer, went there. He found that down the middle of each canister there ran from the neck to the bottom a narrow cone. The neck of the canister was small, and so formed that when the officer put in his rod he could not work it so as to touch the side of the cone. This cone contained about 14 gallon of olive oil, whilst the outer part of the can held about 13 gallons of brandy. There was a little side spout which communicated with the cone. so that anyone who poured out through this spout would get olive oil. The officer, however, found that one of the canisters had been pierced through the outside; and in a vessel standing by there were about 7 gallons of brandy, of the same kind as that which remained in the canister. The defendants pleaded "Not guilty," and the defendant Venedigger pleaded that he was a commission agent in olive oil, and acted in what he did in the course of his business. The defendant Wolff, it was said, was, down to the time in question, translating clerk in the service of the Great Eastern Railway Company. Joseph said that he had been employed, and had come in the hope of earning half a sovereign. The

other two defendants made no statement, as they could not speak English. The facts were undisputed, and the only question for the jury was whether all the defendants were associated in the frauds on the revenue. The jury found them all guilty, and the judge made an order for immediate judgment and execution.

Flavouring Mr. M. Praschkauer, a seed merchant in London, opportunely directs the attention of those whom Hay. it may concern to the virtues of fenugreek as a spice for injured hay. This seed, when powdered and sprinkled over the hay or damaged grain, has the property of sweetening it and rendering it palatable to the beasts. the East it is mixed with the food of the population for the purposes of assisting the digestion, at the same time flavouring the dry food, on which those people mostly subsist. Unlike any other spice-seed, fenugreek has valuable feeding properties, and is in itself most wholesome and most nutritious; it is a tonie, and engenders a healthy appetite. The seed is to be had at a price not much in excess of ordinary food grains, and as it combines in itself both the feeding and the flavouring element, the outlay for the farmer in using it even on a large scale is comparatively trifling. People who have used the seed successfully, say, that 7 to 10 lbs. of fenugreek seed will spice a ton of hay or grain, unless very badly damaged indeed. Fenugreek contains an odorous principle not unlike coumarin, and its peculiar flavour seems to be specially attractive to horses and cattle. This year, when hav is likely to be abundant but flavourless, chemists might with advantage to the human and brute creation bring to the notice of stock-keepers this useful condiment.

THE USE OF EFFERVESCENT PREPARATIONS.

It is generally considered that effervescing preparations are merely a pleasant way of giving nauseous medicines. This is a perfunctory view of the matter. Carbonic acid gas is itself a valuable therapeutic agent, and in calling attention to the subject (Theran. Gaz.) Dr. Frank Woodbury does good service. He believes that the gas plays as important a part in the animal economy as it does in the vegetable. The tissues are bathed with it, and the blood constantly contains a large proportion (30 per cent. by volume); experiments show that blood has nearly twice the affinity for carbonic acid gas that pure water possesses, and will absorb nearly twice its volume. As carbonic acid is always present in the animal body, it must play an important part in nutrition, and it probably has other functions, amongst them retardation of oxidation and prevention of excessive combustion. A generation ago effervescing draughts were much more common than they are now, and Dr. Woodbury reproduces the following old prescription for a draught which was used with great success "to arrest vomiting and irritability of the stomach:-

 Carb. pot.
 gr. xx.

 Aq. menthæ pip.
 3j.

 Tinet. eatechu
 5j.

 Syrup. simp.
 5ij.

 Tinet. opii
 mx.

Dissolve 18 grains of citric acid in 1 oz. ot water, or have in readiness a tublespoonful of lemon-juice. Let the patient swallow the mixture of carbonate of potash, and then the acid solution or lemon-juice.

After referring to the usefulness of effervescing draughts as vehicles for such medicines as castor oil and quinine, and the benefits derived from the administration of Apollinaris and other carbonated waters in fevers, the writer proceeds to state that the administration of small Seidlitz powders, taken while effervescing, is attended with excellent effect where vomiting is persistent. The sedative action of the carbonic acid gas is also seen in the relief of severe gastralgia or enteralgia. Where constipation is caused by rich and highly-concentrated food, so that the bowel is not sufficiently distended, the administration of saline laxatives in effervescent form is especially useful. In disordered digestion, accompanied by headache, the condition properly known as sickheadache, the effervescent preparation may be given alone, or combined with bromides or other agents. In true migraine, the combination of a small amount of deodorised tincture of opium with each dose gives speedy relief.

USEFUL RECIPES FROM THE "NATIONAL FORMULARY."

(Continued from page 157.)

Lac Fermentatum-Fermented Milk-Kumyss.

Cow's milk, fresh		• •	 32 fluid ounces
Yeast, s∈mi-liquid	• •		 60 minims
Sugar		• •	 1 troy onnce

Dissolve the sugar in the milk, contained in a strong bottle, add the yeast, cork the bottle securely and keep it at a temperature between 23° and 32° C. (75° to 90° F.) for six hours; then transfer it to a cold place.

Liquor Carmini-Solution of Carmine.

Carmine	 	 1 tr	oy ounce
Water of ammonia	 	 6 fl	uid oances
Glyceriu	 	 6	**
Water, enough to make	 	 16	

Triturate the carmine to a fine powder in a wedgewood mortar, gradually add the water of ammonia, and afterwards the glycerin, under constant trituration. Transfer the mixture to a porcelain capsule and heat it upon a water-bath, constantly stirring, until the liquid is entirely free from ammoniacal odour. Then cool, and add enough water to make sixteen (16) fluid ounces.

Note.—The hest quality of carmine, known in commerce as "No. 40," should he used for this preparation.

Liquor Coccineus-Cochineal Colour.

Cochineal, in No. 50 powd	 	1 troy ounce		
Carhonate of potassium		 	1	,,
Alum		 	- 3	,,
Bitartrate of potassium		 	1	,,
Glycerin		 	8	fluid ounces
Alcohol		 	1	fluid ounce
Water, enough to make		 	16	fluid ounces

Triturate the cochineal intimately with the carbonate of potassium and eight (8) fluid ounces of water. Then add the alum and bitartrate of potassium successively, heat the mixture to boiling in a capacious vessel, then set it aside to cool, add to it the glycerin and alcohol, filter, and pass enough water through the filter to make sixteen (16) fluid ounces.

Liquor Ferri Iodidi - Solution of Iodide of Iron.

Iron, in	thef	orm of	fine, l	oright, a	nd fir	iely.		
cut w	ire						3	troy ounces
Iodine						4	,718	grains
Нуроро	sphor	ous a	eid (N.	F.)			180	minims
Distille	d wat	er, en	ough to	o make			16	fluid ounces

Mix the iron with twelve (12) fluid ounces of distilled water in a flask, add about one-half of the iodine, and agitate continuously until the liquid becomes hot. Then moderate the reaction by placing the flask in cold water, or by allowing cold water to flow over it, meanwhile keeping up the agitation. When the reaction has moderated add one-half of the remaining iodine at a time, and carefully moderate the reaction each time, in the manner above directed. Finally, raise the contents of the flask to boiling and filter immediately through moistened pure filtering-paper (the point of the filter being supported by a pellet of absorbent cotton) into a bottle containing the hypophosphorous acid. When all the liquid has passed rinse the flask with one-half $(\frac{1}{2})$ fluid ounce of boiling distilled water and pass this through the filter. Cork the bottle and set it aside to cool. Finally, add enough distilled water to make the product measure sixteen (16) fluid ounces.

Each fluid drachm contains about 45 grains of iodide of iron (ferrous).

Note.—On mixing 1 volume of this solution of iodide of iron with 5 volumes of syrup, the product will contain about 60 grains of iodide of iron (ferrous) in each fluid ounce, and will he practically identical, measure for measure, but not weight for weight, with the officinal syrup of iodide of iron.

Liquor Seriparus-Liquid Rennet.

Calves' rennet, fresh	 	2 troy ounces
Chloride of sodium	 • •	360 grains
Alcohol	 	4 fluid ounces
Water	 	16 ,,

Dissolve the chloride of sodium in the water, add the alcohol, and macerate in this mixture the rennet (or the washed mucous membrane of the fresh stomach of a suckling calf), during three days, under frequent agitation. Then filter.

Note.—If this liquid is to be used merely for curdling the milk, without separating the whey as a distinct layer, it should be added to the milk, previously warmed to a temperature of ahout 35° C. (95° F.), and the mixture should then be set aside undisturbed until it coagulates. If the whey is to be separated the liquid rennet should be added to the milk while cold, and the mixture heated to ahout 35° C. (95° F.), but not exceeding 40° C. (104° F.). One part of the liquid shou'd coagulate between 200 and 300 parts of cows' milk.

Mistura Chloral et Potassii Bromidi Composita—Compound Mixture of Chloral and Bromide of Potassium.

Chloral		 	4	troy ounces
Bromide of rotassium		 	4	,,
Extract of Indian caunal	bis	 	16	grains
Extract of hyoseyamus		 	16	,,
Alcohol		 	1	fluid ounce
Tincture of quillaja (N. 1	F.)	 	1	27
Water, euough to make		 1	16 1	fluid ounces

Dissolve the chloral and bromide of potassium in twelve (12) fluid ounces of water, dissolve in this solution the extract of hyoscyamus and add the tincture of quillaja. Then dissolve the extract of Indian cannabis in the alcohol, and add this solution gradually, and under shaking, to that first prepared. Finally, add enough water to make sixteen (16) fluid ounces.

This preparation should be shaken whenever any of it is to be dispensed.

Each fluid drachm contains 15 grains each of chloral and of bromide of potassium, and $\frac{1}{8}$ grain each of extract of Indian cannabis and of extract of hyoscyamus.

Note.—The resinous extract of Indian cunnalis is merely held in suspension by means of the tincture of quillaja, as it is practically insoluble in the liquid. If the mixture is filtered the resin will remain on the filter.

Mistura Chloroformi et Opii—Mixture of Chloroform and Opium—Chloroform Anodyne.

Purified chloroform		2 fluid ounces
Oil of peppermint		16 minims
Tincture of Indian cannabis	• •	2 fluid ounces
Tincture of quillaja (N. F.)		2 "
Fluid extract of helladonna		128 minims
Deodorised tincture of opium		23 fluid ounces
Tiucture of capsicum		1 fluid ounce
Purified extract of glycyrrhiza		240 grains
Water		½ fluid ounce
Syrup, enough to make		16 fluid ounces

Triturate the purified extract of glycyrrhiza with the water and one (1) fluid ounce of the syrup until it is dissolved. Mix the fluid extract of belladonna, deodorised tincture of opium and tincture of capsicum, and add them to the solution first prepared. Then mix the chloroform, oil of peppermint, tincture of Indian cannabis, and tincture of quillaja, and add them to the mixture. Finally, add enough syrup to make sixteen (16) fluid ounces and mix the whole thoroughly together.

This mixture should be shaken whenever any of it is to be dispensed.

Each fluid drachm represents $7\frac{1}{2}$ minims of chloroform, $7\frac{1}{2}$ minims of tincture of Indian cannabis, $3\frac{3}{4}$ minims of tincture of capsicum, 1 minim of fluid extract of belladonna, and about 1 grain of opium.

Note.—This preparation is intended to fulfil the same purposes as the "Tinetura Chloroformi et Morphinæ" of the British Pharm., though the composition of the latter differs materially from that of the mixture above given.

Mistura contra Diarrhœam-Diarrhœa Mixture.

1. Cholera Mixture.

Tincture of opium, Tincture of capsicum,

Tincture of rhubarb, Spirit of eamphor,

Spirit of peppermint, each equal volumes

Mix them, and filter.

Note.—The formula above given, which appears to be that in most general use, is also known under the name of "Sun Mixture."

Of other similar preparations, in more or less general use, the following may be mentioned here:—

2. Loomis' Diarrhaa Mixture.

Tincture of	opium					1	fluid ounce
Tincture of	rhnbar	5				3	71
Compound	tinctur	enfo	atechu	(U.S	, P.)	1	21
Oil of sassa:	fras					20	minims
Compound	tinetu	re of	lavend	er, en	ough		
to make				. ,		4	fluid ounces

3. Squibb's Diarrhaa Mixture.

Timeture of opium	 	 1 fluid ounce
Tineture of capsicum	 	 1 ,,
Spirit of camphor	 	 1 ,,
Purified chloroform	 	 180 minims
Alcohol, enough to make	 	 5 fluid ounces

4. Thielemann's Diarrhaa Mixture.

Wine of opinm		 	1 fluid ounce
Tincture of valerian		 	14 finid ounces
Ether		 	l fluid ounce
Oil of peppermint		 	60 minims
Fluid extract of ipecae,	٠.	 	15 ,,
Alcohol, enough to make		 	4 fluid onnces

This preparation is practically identical with the "Mixtura Thielemanni" of the Swedish Pharm.

5. Velpcau's Diarrhaa Mixture.

Tracture of opium, Compound tincture of eatechu (U. S. P.) Spirit of camphor, each equal volume-

Mistura Copaibæ Composita—Compound Copaiba Mixture—Lafayette Mixture.

$-\epsilon$	opaiba						2	fluid ounces
S	ririt of ni	trous	ether				2	95
C	o.npound	tinetu	re of la	avendo	Υ.,		2	2.5
7.	olution of	potas	sa				- 9	fluid ounce
S.	rup						5	fluid ounces
M	Incilage o	f dex	trin (2	ζ. F.),	enougl	to to		
	make						16	

Mix the copaiba with the solution of potassa and the spirit of nitrous other. Then add the compound tineture of lavender, and lastly, the syrup and mucilage of dextrin. Mix the whole thoroughly by shaking.

Mix the whole thoroughly by shaking.

This mixture should be well agitated whenever any of it is to be dispensed.

Each fluid drachm contains 7½ minims of copaiba.

Note. The above mixture has usually been prepared with mucilage of acacia; but if mucilage of dextrin (N. F.) be used it will keep for a longer time without separating.

MARRIAGES.

[Notices of Marriages and Deaths are inserted free if sent with proper authentication.]

ARBLASTER—WRIGHT. On August 2, at Christ Church, Sparkbrook, Mr. Charles Arblaster, of Winsford, Cheshire, surgeon, son of Mr. C. J. Arblaster, chemist and druggist, Hagley Road, Edgbaston, to Clara Ashworth, daughter of Mr. Henry Wright, Monona House, Small Heath.

WEBB—COLE - On July 31, 1888, at the Baptist Chapel, Marlowes, Hemel Hempstead, by the Rev. D. Tatton, Mr. J. II. Webb, chemist and druggist, of Luton, to Evangeline (Eva), fourth daughter of Mr. C. J. Cole, of Hemel Hempstead.

DEATHS.

CANNING.—We much regret to report the death of Mr. William Canning, chemist and druggist, which occurred on July 25, 1888, at his residence, Rignold Road, Camberwell. Mr. Canning was 67 years of age. He had been in business as a chemist and druggist in his younger days, but afterwards became associated with the United Society of Chemists and Druggists, assisting the late Mr. Buott in his organising efforts. Afterwards Mr. Canning came on to the staff of this journal, and subsequently for many years edited and managed the monthly prices current published by Mr. Wm. Mather. He also compiled and published two books which had some popularity—"Select Practical Notes and Formulæ," and "The Chemists' and Dispensers' Vade Mecum." For some years Mr. Canning has been unable to get about, and he has had to limit his activity to such literary work as came in his way. The death of a son last Christmas time affected him very deeply, and his friends are not altogether surprised at his own breakdown, though he had for many years borne heavy trouble with singular patience and cheerfulness.

FINDLATER —At New York, on July 19, William G. Findlater, chemist, late of Aberchirder, Banffshire.

JONES.—On July 28, Mr. Rowland Gill Jones, chemist and druggist, Stourbridge. Aged 61.

SLUGG.-We regret to announce the death on August 3, at his residence, Chorlton-eum Hardy, of Mr. Josiah T. Slugg, F.R.AS, for many years a well-known Manchester chemist. He was born in the year 1814, and was the son of the Rev. Thomas Slugg, a Wesleyan minister of some standing. He was educated at Woodhouse Grove School, an establishment for the sons of Wesleyan ministers, near Leeds. He was apprenticed to the late Mr. W. Dentith, chemist, &c, formerly of Market Street, Manchester. Mr. Slugg began business on his own account, first as a manufacturer of soda water, and subsequently as a chemist and druggist, in Medlock Street, Hulme, from which place he removed at length to Stretford New Road. He took a great interest in astronomical science, and following the instructions of the late Dr. Diek, he made a telescope, with the aid of which he saw, for the first time, the moons of Jupiter. He afterwards constructed an improved instrument; and believing that others would be glad to learn how to make one equally good at a small cost he wrote letters to the local newspapers giving plain directions for that purpose. These letters were reprinted in the Times and several other journals, and attracted considerable attention. Receiving applications for more detailed information, Mr. Slugg published two little works entitled, "The Stars and the Telescope," in the second of which he explained the mode of constructing a eheap achromatic instrument powerful enough to exhibit the rings of Saturn. At the same time he announced his ability to supply a telescope of this kind for 31.—the lowest price up to this period being about 101. Much interest was felt in this experiment by the friends of popular instruction and by persons eminent in science, including the late Earl of Durham, the Hon. Mrs. Ward, authoress of "Telescope Teachings"; and Sir E. J. Reed. It was by the aid of one of Mr. Slugg's inexpensive telescopes that Mr. Proctor, the distinguished astronomer, first discerned ice and snow on the planet Mars. In the year 1866 Mr. Slugg was elected a Fellow of the Royal Astronomical Society. He did excellent service as a generally gratuitous lecturer on various branches of physical science. Besides the books mentioned, Mr. Slugg issued a larger work, entitled "Observational Astronomy," which contained maps of the stars, and a description of the constellations. In 1880 he published his "Reminiscences of Manchester Fifty Years Ago"; and in 1885, when over 70 years old, an admirable history of the school in which he was educated. Alike in his writings, his lectures, and his conversation he displayed his talent for clear and forcible exposition, enlivened by a quiet humour and a somewhat quaint originality. Modest, amiable, sincerely desirous to be useful, he did a good work in the promotion of popular education in Manchester, which entitles him to respectful and grateful remembrance. He was a local preacher in the Wesleyan Connexion for more than forty

WALE.—On July 29, Mr. William Wale, chemist and druggist, Griffydam, Ashby de la-Zouch. Aged 73.

WILLS OF DECEASED CHEMISTS.

The will (dated December 10, 1885) of the late Mr. G. W. Allsop, chemist and druggist, Denman Street, Nottingham, who died on February 29 last, was proved at Nottingham on March 16, by Mrs. M. Allsop, the widow and sole executrix, to whom the testator bequeaths the whole of his property absolutely. The gross personal estate amounted to 534l. 9s. 10d., and the net to 449l. 0s. 5d., with no leaseholds.

The will (dated December 8, 1884) of the late Mr. Edward Collinson Bell, pharmaceutical chemist, Berkeley, who died on March 16 last, was proved at Gloucester, on April 21, by Mrs. S. Bell, the widow (the sole executrix during her life). The personal estate amounted to 5,341\(left). 16s. 6d. The testator devises his real estate for life to his wife, and upon her decease to his son-in-law, John Fancourt, upon trust. He gives legacies of 100\(left). to his wife and to each of his children. To his wife he also leaves his household effects, &c., and the income from his personal estate for her life. Upon her death the property is to be invested for the joint and equal benefit of his children.

The will (dated April 14, 1888) of the late Mr. Thomas Bullen, chemist and druggist, Hove, Brighton, who died April 17 last, was proved at Lewes, on May 19, by Mrs. H. Bullen, the widow, and Mr. J. Jackson Clarke, two of the executors, Mr. S. J. Weston, the other executor, having renounced the probate, &c. The gross personalty amounted to 5,306l. 12s. 2d., and the net to 4,285l. 0s. 8d. The testator devises the proceeds of his life policy to his wife. He directs his estate to be realised and the proceeds invested, the income to be paid his wife during widowhood, and after her death or remarriage the property is to be equally divided among his children, failing whom testator bequeaths it between his brothers, James Edwin and George, or their heirs. The testator directs his trustees to pay his mother not more than 25l. per annum.

The will (dated September 15, 1880) of the late Mr. John William Carrington, Hall Place, Paddington, druggist, who lied March 24 last, was proved in London, on May 8, by the executors and trustees, Messrs. F. E. Soper, 33 Lower Seymour Street, and F. Baker, formerly of 119 feledon Road, N., out now of Friein Barnet. The gross personal estate amounted to 3,3351. 15s. 2d., and the net to 3,291l. 0s. 2d. The testator bequeaths his furniture, household effects, plate, cc., to his widow, and also the income arising out of his state for her life, with remainder to such children of his rothers, Frederick Charles and George Thomas, as may be iving at his widow's death. To his daughter, Mrs. E. R. friffith, he leaves 200l. By a codicil (dated April 3, 1884) he testator leaves his executors twenty-five guineas each.

Letters of administration were granted on April 6, 1888, of the personal estate of the late Mr. John Davies, chemist and druggist, of Llanybyther, who died March 1 last intestate, o Mrs. S. Davies, the widow, she having first been sworn to administer. The gross and net effects were declared under 11., with no leaseholds. The sureties are Mr. R. Evans, hemist, Lampeter, and Mr. D. Thomas, accountant, Lampeter.

The will (dated July 5, 1881) of the late Mr. William bolman, chemist, of Everton House, Cheltenham, who died darch 24 last, was proved at Gloucester, on May 2, by the vidow, Mrs. Sarah Dolman, and Mr. G. H. Palmer, of Chelenham, the executors. The personal estate amounted to ,4521. 8s. 1d. The testator gives 11 Brandon Terrace to his vife for life. He directs the trustees to temporarily carry n, by means of a competent manager, his business until hey can sell it to advantage. His real and personal estate 3 to be sold at the discretion of the trustees, and the proceds invested for the benefit of his widow for life, and at er death to be equally divided among his children.

The will (dated December 23, 1887) of the late Mr. H. B. 'irman, chemist and druggist, formerly of Salisbury, who ied at Exmouth on March 26 last, was proved in London on pril 20, by Mrs. M. A. Firman, the widow and sole executix, to whom the testator bequeaths the whole of his proerty, whether real or personal, and whom he appoints uardian of his child or children. The gross personal estate mounted to 4421. 5s., and the net to 3401. 10s. 10d.

The will (dated December 22, 1887) of the late Mr. Henry Gill, formerly chemist and druggist, of Ranmoor Terrace, Sheffield, who died on March 10 last, was proved at Wakefield, on April 10, by Mrs. Sarah Gill, the widow and sole executrix. The gross value of the personalty amounted to 691l. 0s. 8d., and the net value to 351l. 0s. 8d. The testator bequeaths the whole of his real and personal estate to his widow for her absolute use.

The will (dated September 30, 1884) of the late Mr. George Quested, of St. Mildred's Lodge, Westgate, formerly chemist and druggist, who died April 6 last, was proved at Canterbury, on June 23, by the widow, Mrs. Rebecca Quested, and Mr. R. E. Pottinger (testator's brother-in-law), the executors. The testator devises his freehold house, 20 Market Place, Margate, subject to the payment of 40l. per annum each to his sisters, Mrs. S. A. Baker and Mrs. A. C. Hudson, to his widow for life, with remainder to his daughter, Miss G. E. P. Quested. He also devises St. Mildred's lodge to his widow for her life, with remainder to his son, Mr. E. L. P. Quested. The testator directs that the income arising from his estate shall be paid to his widow for her life, and upon her death the property shall be equally divided among his children. The gross personalty amounted to 3,655l. 2s. 1d., and the net to 3,410l. 18s. 8d. The testator bequeathed his brother-in-law and executor, Mr. R. E. Pottinger, a legacy of 20l.

The inventory of the personal estate of the late Mr. Richard Raimes, of the firm of Raimes, Blanshard & Co., wholesale druggists, Edinburgh, has been recorded in the Commissary Court books of Edinburgh, the amount, exclusive of debts, being 47,055l. 15s. 8d. By his will, dated September 13, 1880, Mr. Raimes directs his trustees to hold two sums of 10,000l. each for behoof of his daughters Elizabeth and Maria in liferent, said sums, in the event of their marriage, to be settled on them and their husbands in liferent, and absolutely on their children. He also directs his trustees to pay to the trustees acting under each of the marriage contracts of his daughters Isabella and Jessie 5,000l., to put these daughters, with the 5,000l. already settled on each, on an equal footing with his other daughters Elizabeth and Maria. To his son Richard he bequeaths his shares in the London and Edinburgh Shipping Company, the Scottish Wharf Company, the Leith Corn Exchange Company, the York Corn Market Company, Edinburgh Tramway Company, Edinburgh Heritable Security Company, Scottish Union and National Insurance Company, and in the Scottish Newspaper Company; the scats in North Leith Church, fen duties or other heritable property at Lixmont, his whole estate heritable and movable in Ceylon, and also his estate of Wheldrake, in Yorkshire, it being his wish that this estate should always be in the possession of one of the family bearing the name of Raimes. The remainder of his means he directs to be realised and divided equally between his sons John and Richard, which, having regard to the advances made to John, will, he considers, put them on an equal footing. The whole bequests are made on the express condition that the beneficiaries are to remain in the Protestant faith, and are to be forfeited otherwise. By a codicil dated December 22, 1884, he directs his trustees, instead of paying the above 5,0001. provisions to the marriage trustees of his daughters Isabella and Jessie, to hold these sums themselves, and apply them as directed in the will; and by a codicil dated March 29, 1886, these provisions are cancelled in respect of his having settled similar sums on these daughters by a separate deed. By the last codicil to his will, dated September 14, 1887, he appoints his son Richard sole residuary legatee on account of the death of his son John.

The will (dated June 20, 1885) of the late Mr. C. T. Scaife, chemist, of Worksop, who died March 30 last, was proved at Nottingham, on May 9, by Mr. T. Hancock, the sole executor and trustee. The testator leaves 200l. to his sister, Mrs. Appleton, with the household furniture and effects, &c., and after bequeathing small legacies to others, including 10l. to his executor, he directs the residue of his estate to be equally divided between his nephews and nieces upon their attaining the age of twenty-one years. The personalty amounted to 1,556l, 6s. 1d., and there were no deductions or leaseholds. By a codicil (dated December 18, 1886) the testator bequeathed a legacy of 100l. to his assistant, Mr. Robert Moore.

Trade Report.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide,

42 CANNON STREET, E.C., August 9.

THE August Bank Holiday has interrupted such life as remains in the drug and chemical markets for the better part of the week, and there are no changes of importance whatever to chronicle since our last report. No spice or drysaltery sale was held this week, and the drug auctions were almost devoid of interest. Ipecacuanha has made a further advance privately, and for senna very high prices are paid. Russian anise, fenugreek seed, opium, and galangal root are also dearer, and holders of senega root are very firm. Musk sold very well to-day, finc civet is almost unobtainable, and from Italy comes a report of a further advance in oil of bergamot. Opium is also slightly dearer, while gentian, Turkey gum arabic, cascara sagrada, and nux vomiea bring full rates. As a set off, HGH peppermint oil must be quoted weaker, and for otto of rosc lower prices are anticipated; in some quarters orris root and cumin seed are also weaker. In fine chemicals the market is practically unchanged, with the exception of caffeine, which has become decidedly cheaper. Quicksilver and mercurials, borax, and refined camphor are also weak, while cream of tartar citric and tartaric acid have failed to improve. Quininc is practically a dead letter. Morphia is very firm, with a good inquiry. Sulphate of copper has improved just a shade, and among heavy chemicals bleaching-powder is looking up a little. Drysalterics are very quiet, shellac being only a retail article just now, but the improvement in gambier is fully maintained. Turpentine and linseed oil have recently improved, and at Liverpool castor oil is reported in better demand. On the other hand, rape and palm oil are cheaper. A large business in Zanzibar cloves and pimento, at hardening prices, is reported.

To-day's Drug Sales were remarkable in one respect only. They contained the fewest number of catalogues (10) since twenty years, the smallest number of lots, viz. 593, since twenty-five years, and they probably represented by far the smallest aggregate monetary value offered at any drug sale within the recollection of the oldest frequenter of the sale rooms.

THE FRENCH BOARD OF TRADE RETURNS, unlike our own, are the reverse of satisfactory. For the six months from January 1 to June 30 the imports and exports into the territory of the Republic, as compared with the first half-year of 1887, have been:—

	Imp	corts	Exp	orts
_				-
	1888	1887	1888	1887
Alimentary prodec, frs Raw material for the	697,499,000	667,866,000	297,855,000	329,197,000
industries, Manufactured goods,, Other articles,	971,599,000 273,607,000 54,045,000	1,010,96 4 ,000 264.05 7 ,000 53,01 1 ,000	328,203,000 795,696,000 94 347,000	327,483,000 797,538,000 89,936,000
Total "	1,996,750,000	1,995,898,000	1,516,101,000	1,544,154,000

The imports, therefore, show a very small increase, viz, 852,000 francs, and the exports a considerable decrease, amounting to 28,073,000 francs. It is especially noticeable that in manufactured goods the imports from abroad have increased by 7,550,000 francs, while the exports under the same head have fallen by 1,887,000 francs. French industrics have also bought 39,365,000 francs' worth less of raw material for their requirements.

The Board of Trade Returns for July again show a decided improvement in our foreign trade as compared with the corresponding month of 1887. We imported last month 30,706,412*l*. worth of goods from abroad, against 28,958,156*l*. in July, 1887, an increase of 6 per cent. The branches in which the greatest increase has taken place are alimentary produce, metals, and manufactured goods, but of raw materials we received nearly 10 per cent. less than in July, 1887. Our exports of British and Irish produce and manufactures have advanced from 19,181,395*l*. to 20,762,178*l*., or $8\frac{1}{2}$ per cent., the increase in the aggregate exports of manufactured articles, excluding yarns and metals, alone being nearly 17 per cent. Our re-exports of foreign and colonial produce have advanced from 5,541,604*l*. to 6,511,391*l*., or $17\frac{1}{2}$ per cent.

CABLEGRAMS TO AMERICA.—The tariff war which has prevailed for over two years between the American cable companies, greatly to the advantage of the public, has been brought to a close, and a rate of 1s. per word to New York, Boston, and Canada will be adopted by all companies. This rate takes effect on September I next.

THE MERCHANDISE MARKS ACT.—An influential deputation waited on the Prime Minister on Tuesday to call attention to the injury inflicted on British industries by the delay in extending the Merchandise Marks Act to British colonies and dependencies, and in obtaining the enactment of similar legislation in foreign countries. Lord Salisbury, in reply, stated that the Government had obtained the assent of the majority of the colonies to the principles embodied in the measure, and in several of the Crown colonies legislation had already been effected on the subject. There had been some delay in the case of India, but the matter would now be pressed upon the attention of the Indian Government.

THE GERMAN EXHIBITORS AT BRUSSELS are in a state of great indignation at the alleged dishonourable practices of the German Commissioner, who at the same time holds the position of chief inspector of the exhibition. This gentleman, a former Premier-Lieutenant in the Prussian army, is charged with having abused his position hy blackmailing German exhibitors, by favoritism in the matter of allotments of spaces, by the publication of circulars containing untrue statements, and by extorting money by means of catalogues published under his direction. Nearly 200 of the German exhibitors, including Messrs. Schimmel & Co., of Leipzig, B. Jaffé & Darmstaedter, of Martinikcrfelde, H. Trommsdorff, of Erfürt, Eugen Dieterich, of Helfenburg, and J. D. Riedel, of Berlin, have combined for the purpose of counteracting the alleged favouritism. They have issued a circular to all exhibitors, calling upon them to disregard all instructions issued by the chief inspector, and to refuse payment of all money claimed by him until the accounts have been found correct after examination by a committee of the exhibitors.

ACID (OXALIC) offers at 3d. per lb. with next to no business.

ACID (TARTABIC), neglected, at 1s. $5\frac{1}{8}d$. to 1s. $5\frac{1}{2}d$. for foreign. It is said that some English acid was sold in second hand at 1s. $5\frac{1}{3}d$. per lb. this week, but we have not been able to confirm this report.

ACIDS (CITRIC), unaltered, at 1s. 7d. per lb., the return of the warm weather having not so far exercised any influence on the price of the article. At the auctions to-day 12 kegs (each 5 cwt. of Lawes' brand) were offered for sale, and 1s. $5\frac{1}{2}d$. net cash was bid for the first lot, equal to, say, $1s. 6\frac{3}{2}d$. usual terms. This offer was refused, and the lot bought in at 1s. 8d. per lb. nominally.

ALOES.—Really fine qualities of all varieties are in request at the full rates, but remain scarce. Medium and common aloes on the other hand are in plentiful supply, and can only be sold at a sacrifice. At to-day's auctions 55 cases Cape were offered, of which 45 sold at unchanged rates, 20s. 6d. to 21s. for good hard bright, just a little drossy; 16s. to 17s. 6d. for drossy and soft; and down to 9s. per cwt. for common dull or soft. Curaçao, neglected. No less than

724 packages, mostly small gourds, were placed in sale tolay, but only a few lots were disposed of, at 24s. to 25s. for lark liver. The gourds are limited, it is said, at 30s. per cwt. Zanzibar and Socotrine aloes unaltered; fairly good quality bought in at 6l. 10s. nominally.

AMBERGRIS.—Only four packages, not of the best quality, were offered for sale, and all of this was bought in.

ANISE.—Russian seed is again firmer, and the old stock is nearly all disposed of. For good quality 23s. is required, but the finest grades bring considerably more than that. Italian seed also dearer, at 40s. to 42s. per cwt. for good new. Star anise scarce. Twenty cases genuine but very broken China were bought in to-day at 90s. per cwt. nominally.

Annatto, dull. A few barrels fairly good dry Ceylon secd were shown, and for this 2d. per lb. is asked, which is about the market price at present.

ANTIMONY.—For 100 boxes *Crude* Japanese, 23*l.* 10*s.* per on is named as the price.

ARSENIC remains very firm, at 12s. 6d. to 12s. 9d. per cwt. for best white powder, and 22s. 6d. for lump.

BALSAM PERU is still cheap, and it is claimed that it leserves attention at present, the stock being now reduced to a small compass. At to-day's auctions 4s. 2d. per lb. was refused for 2 cases, a penny more being asked.

BLEACHING POWDER steady and dearer for hardwood, which is scarce. London quotes 8l. 5s.; Tyne, 7l. 7s. 6d. to 7l. 10s.

BORAX remains very quiet, though the English refiners still hold at 30s. per cwt. In Italy prices are falling, Boracic reid offering on August 1 at 23s. per cwt., f.o.b. Leghorn, prompt or forward delivery.

BUCHU in large supply, and obtainable at very low rates. For 10 bales fairly good round leaves, 2d. per lb. was named as the price, and a good parcel of long leaves was also shown, but both were bought in.

CAFFEINE has been much reduced in price lately owing o competition between the foreign and English manuacturers. It is now quoted at 15s. per lb.

CAMPHOR—Nothing is doing in *Crude*, which is nominally neld at 80s. per cwt. for Japanese on the spot. *Refined* camphor is somewhat easier, and it is said that a German irm of refiners are underselling their competitors, notwithtanding the combination which has been formed among the Jerman manufacturers.

CANARY SEED remains quiet, and holders are inclined to give way. The quantities of Turkish seed held over from last eason are, however, unusually small. Of new seed nothing has come to hand yet save small sample parcels from Morocco. From the River Plate about 1,500 bags of seed vere entered, and sold away directly on landing for exportation; the price realised for that description will probably not neourage large shipments from that quarter. The Dutch rop will be late and probably in worse condition than that of last season. Turkish seed is held at 39s. 6d. to 46s. per 64 lbs.; Dutch, 43s. to 47s.; English, 40s. to 41s.; Morocco, 6s. to 48s.; and Spanish, 48s. to 53s. per 464 lbs. ex warelouse.

CANELLA ALBA in good quality is very scarce; a few aedium or ordinary lots occasionally offer at the auctions, and are quickly sold at good prices. Thus to-day, of 0 packages one lot very broken bark of fair colour sold at 0s. per cwt., while 17s. is named as the price of dark mixed and damaged quality.

CANNABIS INDICA.—Three cases, each of 80 lbs., very cod selected herb in bundles, but very brown, were bought a at 8d. per lb., 6d. being found inacceptable.

CANTHARIDES.—Three cases good but old crop Russian ies are firmly held at 4s. 9d. per lb., the broker refusing to ccept 4s. 8d. per lb. Chinese cantharides abundant but lmost unsaleable. The quality of most of the lots offered eaves much to be desired.

CARAWAY SEED is quoted higher, the new Dutch crop, lthough rather large, being of inferior quality. It is held

at 24s. to 26s. per cwt.; but for good old seed, to which attention is now again being directed, 28s. per cwt. is required.

CARDAMOMS.—Only 45 packages were placed in sale to-day, and partly sold without much alteration in values, fine Malabars going cheap, but medium qualities bringing full rates. Ceylon Malabar, good medium to bold pale and round realised 1s. 9d. to 1s. 11d.; small to medium good plump, 1s. 4d. to 1s. 6d.; yellow and split, 1s. 3d.; dark and specky, $\frac{1}{2}d$. to 11d. per lb. Mysore, medium long grey, slightly mouldy, 1s. 4d.; dull ditto to small yellow, 10d. to 9d. per lb.; and fair pale seed, 1s. 2d. per lb.

CASCARA SAGRADA.—About 15 cwts. were offered to-day (in three bales). They are held at 60s per cwt., which is probably very near the market price, 56s, per cwt. being refused.

CASSIA FISTULA.—Fine pods are not offering, but 26 bags of lean and wormy ones sold at 6s 6d. per cwt., and for 28 cases Java pulp, about 4,256 lbs. (imported eighteen months ago viâ Holland), 12s. per cwt. was paid.

CASTILE SOAP remains very quiet. Fine white Conte in cakes, 41s. 6d. to 42s.; in bars, 37s. 6d. to 38s.; green, 21s. 6d. to 21s. 9d.; and mottled, 17s. 6d. to 19s. 9d. per cwt. f.o.b.

CHAMOMILES.—Last season's crop now offers at somewhat easier rates in anticipation of the coming new Belgian flowers. At to-day's auctions a lot of fairly good medium-sized flowers was bought in at 80s. per cwt. nominally.

CINCHONA.—Several parcels of South American bark were offered to-day, including 101 bales Lima, which sold very cheaply, at 2d. to $2\frac{3}{4}d$. per 1b. for sound fairly good mossy, and $\frac{1}{4}d$. to 2d. per 1b. for damaged bark. The whole parcel weighed 9,305 lbs. Good grey *Huanoeo* quill brought 1s. 4d. per lb., damaged ordinary ditto, 9d. per lb. Five bales nondescript bulkings were also disposed of at $3\frac{1}{2}d$. per lb. The shipments of cinchona from Ceylon during the period between October 1 and July 12, 1887-88, have been 9,183,039 lbs.; 1886-87, 11,753,000 lbs., a deficiency this season of 2,569,000 lbs. The arrivals of bark from the interior are also declining, having been from October 1, 1887, to June 24, 1888, 3,402 tons, against 4,735 tons during the same period of 1886-87. The German Consul at La Paz in Bolivia states that the Bolivian Government, in accordance with the expressed unanimous wish of the cinchona planters, have abolished the export duty of $3\frac{1}{5}$ bolivares per quintal (46 kilos.) on cinchona bark, a measure which at the time we announced in THE CHEMIST AND DRUGGIST. The Consul adds that for some time the exports will in all probability be enormously heavy, as the planters had caused large supplies to accumulate in anticipation of the abolition of the duty.

CIVET is again reported dearer, and for the best quality as much as 25s. per oz. is asked, but less would buy pretty good stuff.

Coculus Indicus.—Of sixty bales good garbled quality, twenty were sold at 8s. 9d. per cwt., at which price the remainder may also be had.

CODEIA sells fairly well at 12s. to 13s.

CONDURANGO.—Of 135 bales condurango, mostly of inferior quality, a part was sold at from 2d. to $6\frac{1}{2}d$. per 1b. for very low. A better parcel is held at 1s. 2d. per 1b., 1s. being refused.

COPPER SULPHATE firm, at 201. to 201. 5s. for first mint.

CREAM OF TARTAR steady at the recent decline; first white at 115s. to 116s., seconds at 112s. to 113s. per cwt.

CUBEBS.—We received this week consignments of 22 bags per *Telamon* from Singapore, and 6 bags per *Quetta* from Batavia. Our own market remains quiet, but firm, and up to 27l. per cwt. for good genuine berries. None were offered at the sales to-day.

CUMIN SEED quiet, and obtainable at 38s. per cwt. for new Maltese. At the auctions several parcels of East Indian and Mogadore seed were offered, but all bought in above value, except 11 bales common East Indian, which sold, without reserve, at 20s. per cwt.

CUTCH quiet and unchanged, with but little demand, only retail sales of *Star B* at 31s. per cwt. spot being reported.

DRAGON'S BLOOD.—Only one case dull blocks, not of very good colour, sold at 6l. per cwt.

ELATERIUM.—The demand has quite subsided now, but at to-day's auctions 100 oz., partly of very ordinary quality, were again brought forward, and bought in at nominal rates.

ERGOT OF RYE remains very neglected. Only 7 packages were offered to-day, and of these 3 bales good *Spanish* were bought in at 1s. 3d. per lb. For thin *Russian* 11d. per lb. is asked.

EVODIA.—At to-day's auctions 9 bales, weighing about 5] cwts., of evodia fruits (Evodia fraxinifolia) were offered for sale, but no bid was made for them, and they were consequently withdrawn. The fruit, which is of a dull grey colour, and consists of four carpels united at the base, somewhat resembling star anise in size and formation, was fully described in The Chemist and Druggist of March 24 last, and it is believed that the parcel offered to-day is the same from which the samples were derived that were described in that issue. Evodia oil has been recommended as a deodorant for iodoform, but it has fallen rather flat as a new remedy, and it is said, in fact, that the oil which is really useful for that purpose is derived from another and similar fruit (Xantoxylum Hamiltonianum), so that the parcel under notice would be of no commercial value in any case. The fruit grows in British India.

FENUGREEK SEED.—In good demand at improving prices, and expected to go dearer on account of the probable increased demand for it as a cattle spice. Fine Mogadore is worth 9s. 6d. to 10s. per cwt. now, Egyptian 6s. 6d. to 7s. 6d. per cwt. At auction 126 bags rather stony Megadore were bought in, 8s. per cwt. being suggested.

GALANGAL.—Higher prices are asked, 10s. per cwt. being named as the price of good bright root at to day's auctions.

Gambier again dearer for forward delivery. Block is reported to have been sold at 25s. 9d. to 26s. on the spot, and at 24s. 9d. for near at hand. It is also said that in Liverpool 27s. per cwt. has been paid for near at hand stuff, but this does not seem likely. Fair Cubes on the spot are worth 34s. 6d. per cwt., but for arrival there is no quotation, as the new cubes are said to be so inferior that the Singapore shippers refuse to guarantee quality.

GAMBOGE in good demand at unaltered prices. Three cases broken pipe of fair colour sold at 9l. 15s. per cwt., while 11l. is asked for 5 cases of cakey and broken pipe of good orange fracture.

GENTIAN ROOT remains rather scarce in Italy, and the firmness of holders somewhat checks business. At to-day's auctions 10 bales of fair, but not exceptionally fine quality brought 16s. 6d. per cwt.

GLYCERINE.--Makers remain firm at 63l. for double distilled, 1.260 sp. gr.

GUM ARABIC.—There was a rather large supply of White Mogadore gum at to-day's auctions, a variety much sought after because of its large proportion of fine white gum, and consequently commanding very high rates. There were altogether 36 packages of this gum. A few of these were said to have been privately sold. Two casks very good frosty realised 92. 2s. 6d. per cwt, the same price as at the preceding sales, and the rest was bought in, slightly reddish mixed being limited at 8l. 15s., and an offer of 8l. 12s. 6d. being declined. East Indian Amrad small and dark mixed sorts bought in at 6l. For 5 casks small partly red Mogadore Amrad 75s. was refused. Fine selected Turkey gum is still held at extreme rates.

GUM BENJAMIM.—The supply, as usual, was a very good one, amounting to 116 packages all told. Fine Siam almonds were not offered to-day, but ordinary dark partly woody and blocky grain was bought in at 81, to 101, per cwt. Some fairly good Sumatra seconds were placed in sale, but there was no anxiety to buy, and only 8 cases sold cheaply "without reserve," at 81, 10s. to 91, for good pale almondy seconds, brown bordered.

GUM EUPHORBIUM.—For 7 serons rather dusty sorts, mixed with fairly good pieces, 25s. was refused, and the parcel bought in at 35s, per cwt.

GUM MYRRH, quiet, but steady, with small sales, at 90s. to 92s. 61. per cwt. for fair Aden sorts. There is plenty here.

GUM TRAGACANTH.—The new crop is just commencing to arrive at Smyrna. Our report of June 30, to the effect that the crop this season would be smaller and of less good quality than last year, is fully confirmed.

HONEY.—Three barrels thin brown Jamaica sold at 22s. 6d., per cwt. From Liverpool an improved demand for Chilian honey is reported, with sales last week of 250 barrels, third to first pile, at 20s. 6d. to 30s. per cwt.

IODINE unchanged and quiet. Crude sells at 9d. per oz., Resublimed at 13s. 6d. per lb., and Potassium iodide at 11s. per lb.

IPECACUANHA.—Only 3 bales were offered at auction to-day, and bought in at very high rates, no offers being made. Privately a very good demand has existed, and it is said that our stock in the first hand has now fallen to 6 serons only, although the official stock-list reports a higher figure. For selected root 10s. per lb. is asked, and from 7s. 6d. to 8s. per lb. for fair annulated natural root.

JUNIPER BERRIES.—The crop which is now coming to market in Italy is said to be a good one, but most of it has already been secured by certain speculators. A good business is being done at the rate of 8s per cwt. fo.b. Leghorn.

MERCURIALS quiet, at last week's quotations.

MORPHIA.—The manufacturers report a very good demand indeed at their price of 4s. per oz.

Musk.—Although only six caddies Tonquin musk were offered at to-day's auctions, there must yet be a fairly good supply in the warehouse, as arrivals have come in pretty steadily of late. Four caddies first pile of very fine quality, medium to bolá, dry, well-trimmed, thin blue skin and under skin, sold very well indeed, at 80s. to 81s. per oz. For another caddy, not so good, 76s. was refused. Several parcels grain musk were also disposed of; good red Nepaul at 40s; Calcutta at 25s. 6d. to 55s.; rubbish at 4s. 6d. to 5s. per oz. The exports of musk from the Chinese treaty ports to foreign countries in 1887 were 48,316 ounces.

NUX VOMICA still sells at very full rates, the 45 hags offered to day being quickly disposed of at 12s, to 13s, per cwt. for sandy and partly dark mixed to good bright silky Bombay.

OIL (CASTOR).—At Liverpool $2\frac{31}{23}d$. per lb. was reported paid for good Calcutta seconds just before the holidays, and since then more money has been asked. Our own market shows no change, and of 355 cases offered by auction to-day only 40 good mostly pale *Coconada* sold at $2\frac{1}{2}d$. per lb. Fine *Italian* and first *Calcutta* bought in at $4\frac{1}{4}d$. per lb.

OILS (ESSENTIAL).—There is very little business doing in this branch, and the alterations reported since last week are small. To-day there is a report that Bergamot oil is again dearer in Italy, but we have not confirme 1 it. Cassix dull; 25 cases unworked bought in at 3s. per lb. nominally. Cinnamon, Cinnamon leaf, and Citronella unchanged but steady. Of Lemon 5 cases were offered at auction, and bought in at 4s. to 4s. 6d. per lb. Our last report concerning the coming crop of Mitcham Lavender still holds good, although the hot weather of the last few days has slightly improved the prospect. Oil of limes quoted at 3s. Peppermint oil, American HGH, dull at 12s. to 12s. 3d. per lb. Otto of rose unchanged. We hear that the largest Constantinople dealers have not yet bought, as they anticipate lower prices shortly.

OIL (OLIVE).—Quiet, but steady, at 37l. nominally for Spanish, 34l. 10s. to 35l. for Sicilian, and 32l. 10s. for Mogadore. Reports from Naples refer in the following terms to the coming Italian crop:—At Gioja the estimate is one-sixth to one-fourth of a normal crop, while about half an average crop is expected in the other growing districts, or say, between one-third and half-crop on the aggregate, although in view of the absence of spring rains, and prolonged drought in the more fruit-laden districts, it is generally apprehended that the crops will not come to maturity without more or less serious reductions. The present stock of oil at Gallipoli is about 4,000 tuns, and at Gioja it is generally estimated at 12,000 to 13,000 tuns, although it is difficult to

obtain reliable information on this score. At the other places of shipment, as also in the interior, stocks are unusually scanty. On the other hand we hear from Leghorn that the crop prospects in Northern Italy are very good indeed.

OILS (VARIOUS).—Cocoanut oil remains quiet, at 221. to 22l. 15s. for fine Ceylon, and 24l. 10s. up to 27l. for good to very fine Cochin. Mauritius oil nominal. Cotton oil shows no alteration at 19l. for crude, and 20l. 10s. for refined on the spot. Hull quotes, spot, 19l. 15s; November-April, 18l. 5s. to 18l. 7s. 6d.; crude, 17l. 10s. to 17l. 12s. 6d. Linsced oil is advancing rather briskly, and closes to day as follows:—Spot, 18l. 7s. 6d. to 18l. 10s.; month, 18l. 10s. For September-December 18l. 15s, has been paid. January-April quotes 18l. 17s. 6d. to 19l.; Hull, spot, 18l. 17s. 6d. to April quotes 18t. 17s. 6d. to 19t.; Hull, spot, 18t. 17s. 6d. to 19t.; month, 18t. 17s. 6d.; September-December, 18t. 17s. 6d.; January-April, 18t. 15s. Palm oil remains lifeless with a tendency towards lower rates, and fine Lagos cannot be quoted now above 20t. to 20t. 10s. Petroleum steady, but quiet. American, spot, $7\frac{1}{3}d$. to $7\frac{1}{4}d$.; September-December, $6\frac{3}{4}d$. to $6\frac{7}{16}d$.; Russian, spot, $6\frac{3}{3}d$.; September-December, $6\frac{1}{5}d$. to $6\frac{7}{16}d$. Rape oil has been declining, but closes firm to-day as follows:—Brown, spot. 24t. 5s.: September-December. to-day as follows:—Brown, spot, 24*l*. 5s.; September-December, 24*l*. 10s.; refined spot, 25*l*. 10s. to 25*l*. 15s. Turpentine—American spirits have made some improvement to-day, and close at 27s. 9d. for spot and September-December, and 28s. 9d. for January-April.

OPIUM.—The latest reports from Smyrna, dated July 28, are to the effect that extraordinary efforts are being made by a party of operators to run up prices. So far they had succeeded in forcing up ordinary examined opium, new crop, from 7s. 4d. to 8s. 3d. per lb., and they refused to continue selling at the latter price. The general opinion is, however, that the bulls will not be able long to thwart the natural downward course of the article, and, in fact, we hear it asserted that their object is merely to keep up the price until after September 3, for on that date the Dutch Government, according to a statement issued by the Ministry of the Colonies at the Hague, will receive tenders for 500 cases of Turkish opium for Java, 150 to be delivered end of October, 150 end of November, and 200 end of December. The speculators, it is said, hope to keep up the market until the date of adjudication in order to force the Dutch Government to purchase at a high figure, and, this aim achieved, they will be the first to turn round and depress the market for the purpose of buying cheaply. It seems that a minimum crop of 10,000 cases is now assured. The arrivals at Smyrna, up to July 28, were 1,130 baskets, against 159 and 900 at the corresponding dates of 1887 and 1886. The market closed firm, with a rising tendency.

Our market has responded to the Smyrna advance, and prices here have risen about 6d. per lb. for second qualiies since last week, although the demand is still lacking

n animation.

ORANGE PEEL.—The stock of ordinary qualities is far in excess of our requirements; fair to good small Malta, gelatine out, is held at 8d. to 1s. per lb.

ORRIS ROOT.—Notwithstanding the reports that the new rop will again be a failure, holders in Italy are becoming apprehensive that their excessive demands cannot much longer be maintained, and they are gradually lowering their prices in the hope of clearing off their stock before the new oot arrives. At present the nominal prices at Leghorn range is follows: Florentine root, fine selected, 46s. to 47s. per :wt.; ditto small and dark mixed, 41s. per cwt.; Verona, common to fine, 20s. to 23s. per cwt.

PUMICE STONE.—It now appears that not all the Lipari nine owners have joined the syndicate, which has, therefore, ailed in its object of controlling the entire supply. Prices now range from 10s. to 17s. per cwt. for ordinary picked to pest picked; and from 8s. 6d. down to 4s. 6d. per cwt. for commoner lots. The volcanic eruption in the Lipari islands s not unlikely to further influence the price of the article.

QUICKSILVER.—The principal importers still refuse to uote, and second-hand holders have gradually been brought o accept lower rates. To-day they quote 7l. 10s. to 7l. 12s

QUININE dull and without any transaction of importance. here are buyers of German bulk quinine for forward delivery t 1s. 4d. but no sellers, while, on the other hand, second-

hand holders offer spot at 1s. 4d. without finding purchasers. Maker's quotations show no change.

RHUBARB.— Only 52 cases were offered to-day, and of these next to nothing was sold, there being no serious competition. A few cases Shensi root, fair flat, dull coated, partly pinky fracture, sold at 1s 2d. per lb. Per steamer Telamon 56 cases arrived from China this week. The total shipments of rhubarb from Chinese ports to foreign countries amounted to 46,218 piculs last year.

SENEGA.—Good bright root is held at 1s 9d. per lb, and in America prices seem improving, some dealers having stopped selling for the present. At auction two bales chumpy and sea-damaged root sold at 1s. 5d. to 1s. 7d. per lb.

SENNA.—Since last week 177 bales have arrived from Tinnevelly, but it is uncertain whether these are the first consignments of the new crop or old parcels kept in stock in India until the last moment. Of 62 bales offered to-day a small quantity belonged to this recent import, and it sold at rather dearer rates, 33d. per lb. for medium greenish seadamaged leaves. The rest of the parcels offered was utter rubbish, and sold partly at $\frac{1}{4}d$. to $\frac{1}{2}d$. per lb.

SHELLAC.—No public sales have been held this week, and privately we hear of retail transactions only in Second orange, TN standard, near at hand, at 41s. c.i.f. terms.

SPICES.—There have been no auctions this week, but there has been a strong demand privately for Cloves, and values have somewhat improved. From $6\frac{3}{5}d$. to $6\frac{5}{5}d$. per lb. has been paid for fair to good bright Zanzibar. Pimento has also been in brisk demand, with sales at $2\frac{1}{9}l$, to $2\frac{3}{9}d$, for fair to good Jamaica.

TEA.—China market.—The tea trade, as usual, takes some time recovering from holidays, and there were no sales on Tuesday, and but very little catalogued for Wednesday. On the latter day, however, some business passed privately in Monings, there being a fair demand for good Keemuns and Kintucks from 1s. 2d. to 1s. 4d., and a slightly firmer market. On Thursday common old season's Kaisow and Saryune sold from $3\frac{1}{2}d$. to $4\frac{1}{4}d$, the recent advance being maintained; New Saryunes and Soomoos from $6\frac{3}{4}d$. to $10\frac{1}{2}d$, without much alteration; Packlings from $11\frac{1}{4}d$. to 1s. $1\frac{1}{2}d$.; Pecco Congou—poor liquor and tolerable appearance—1s. 2d. and 1s. $3\frac{1}{4}d$.; and Lapseng Souchong, $10\frac{5}{4}d$. and 1s. One or two good leaf Ningchows, in appearance more like second crop teas than first, fetched $9\frac{1}{2}d$. to $10\frac{1}{2}d$.; but there is not much Moning being sold in public sale, and holders as a rule do not appεar very eager to sell. Unless, however, there should be a very large demand for shipping, we do not see any reason to anticipate a permanently dearer marsee any reason to anticipate a permanently dearcr market for Monings in the face of the Indian and Ceylon teas coming forward. New Kokew and Formosa Oolongs in sale on Thursday sold slowly from \$\frac{1}{2}d. to \$\frac{11}{d}\$, showing very fair value to buyers. Indian teas were in fairly large supply in the Thursday specifies and sold stockly without any alteration to not auctions, and sold steadily without any alteration to note. There are many good useful Pekoe Souchorgs and Pekoes to be bought from $7\frac{1}{2}d$. to 11d., and these are worth attention, being sound serviceable teas for general use. Fine teas are not plentiful, and anything really choice fetches a long price. Broken Pekoes from $10\frac{1}{5}d$. to 1s. 1d. are cheap, and some very handsome new teas have been sold within these prices, being readily taken in the country. Ceylons are steady, the demand being fully equal to the amount offering, and most useful teas are taken readily at previous rates.

WAX (BEES').—A good demand still exists for Jamaica wax, which sold to-day at 6l. 2s. 6d. for good yellow, 5l. 15s. to 5l. 17s. 6d. for orange, and 5l. to 5l. 10s. for brown and grey mixed. Four casks fair Mogadore also sold at 85s. per cwt.

COCAINE has, according to Dr. J. Brown, been used in dentistry to deaden the sensibility of the exposed pulp. The pure alkaloid is preferable to a salt for this purpose, because, being less soluble in water, it is less liable to be washed away by the saliva. A strong solution in oil of cloves is also useful.

THE AMERICAN MARKETS.

NEW YORK, July 20.

THERE are few features to report this week. The market has been fairly steady, with a little weakness in the two most prominent articles, opium and quinine, and a tendency of one or two others the other way. There is a disposition every now and again manifested to push up some article to what its proper level should be, but for a long while back it has been impossible to sustain the price of anything for any length of time. Nothing seems to hold, there is no backbone to anything, and this is likely to continue at least until the tariff question is settled one way or the other. Of this there are some signs this week, the discussion having been closed yesterday in the House of Representatives. Thus the end is drawing near, and when it has come there is every reason to look for much more stability in business, a more certain basis to work upon, and a consequent greater firmness when advances do occur. A much more satisfactory condition of affairs than has for some time past prevailed is therefore anticipated in future.

ACID (CITRIC).—There is no change in the position of this article, either foreign or American being obtainable at 50c., less 10c. duty (1s. 8d.).

BALSAMS.—Copaiba: Central American has become quite scarce within the past fortnight; the price has advanced to 48c. (2s.), and remains very firm. Parà and Angostura remain about the same as quoting for some time back, the former 60c. (2s. 6d.) and the latter 55c. (2s. $3\frac{1}{2}d$.). Telu is worth 28c. to 30c. (1s. 2d. to 1s. 3d.); Peru, about \$1.10 (4s. 7d.); Canada Fir, \$3 (16s. 8d.), and Oregon ditto, \$1.10 (4s. 7d.).

BROMIDE OF POTASSIUM still remains at the same figure, 33c. $(1s. 4\frac{1}{5}d.)$ in 1,000-lb. lots.

CUBEBS are firm at recent advanced quotations, \$150 to \$1.75 (6s. 3d. to 7s. $3\frac{1}{2}d$.), the former for ordinary stemming, the latter for prime sitted and stemless.

GUM ASAFETIDA continues about as last reported, 9c. $(4\frac{1}{a}d.)$ for prime pure gum, with a fair jobbing demand. We have had considerable quantities of poor gum on the market for some time, stony, dirty, and undesirable, which has been gradually worked off, and good clean gum, and the only gum wanted here, is mainly offering and finds ready sale.

LYCOPODIUM has further advanced, and is now steady at 40c. (1s. 8d.), with an upward tendency, and growing scarce.

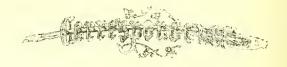
OILS (ESSENTIAL) -The general market is quiet, but there is an increasing interest for Peppermint, and prices remain firm, with a strong upward tendency. Western holders are asking \$2.05 (8s. $6\frac{1}{2}d$.) to \$2.10 (8s. 9d.), and New York State is held at \$2.35 (9s. 9\frac{1}{2}d.), and H. G. H. hottled oil, \$3 to \$3.25 (12s. 6d. to 13s. $6\frac{1}{2}d$.). The supply this season will turn out very much below the average, and with a reasonable demand much higher prices may be looked for, Wintergreen is firm at previous late advance, \$1.85 to \$1.90 $(7s. 8\frac{1}{2}d. \text{ to } 7s. 11d.)$. Sassafras is very much in demand, scarce, and worth 50c. (2s. 2d.). Oil of Rose Geranium is much higher here, in sympathy with the market abroad, and Chiris, the most popular brand here, is held at $\$9\frac{1}{3}$ (39s. 7d.) per lb. Other good brands are procurable at $\$8\frac{1}{2}$ to \$8.75(35s. 5d. to 36s. 5d.) as yet.

OPIUM, as mentioned, is not quite so firm this week, in consequence of recent large arrivals, and is off about 5c. per lb, and selling for single cases at \$2.65 (\$1.65 in bond, 6s. 11d. per lb.), and lots at \$2.60 (\$1.60 in bond, 6s. 8d. per lb.), with a moderate steady jobbing demand.

QUICKSILVER is firm at 57c., duty 10 per cent. (2s. 2d.), with good steady demand.

QUININE has continued steady at the late advance, and a much quieter feeling has obtained. The prices remain about the same, viz, 34c. (1s. 5d.) for good brands, and 35c. (1s. $5\frac{1}{2}d$.) for the better-known and longer-established ones.

ROOTS .- I pecacuanha has still a tendency to further decline, and \$1.50 (6s. 3d.) is the market, but it is inactive and neglected. Golden Scal unchanged at 35c. to 40c. (1s. 5½.d. to 1s. 8d.). Senega is about the same as last reported, 35c. to 40c. Ginseng, no change, \$2 to \$2.25 (8s. 4d. to 9s. 4d.), depending entirely upon quality and somewhat on quantity.



Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish.

Write on one side of the paper only; write early; and devote a separate sheet of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read. Ask us anything of pharmaceutical interest: we shall do our best to reply. Before writing for formulæ consult the last volume, if you have it. Letters, queries, &c., not noticed in this issue will, if possible, be attended to next week.

Foreigners and the Preliminary Examination.

SIR,—You will perhaps allow me to reply briefly to some of the points raised by the prolix letter of your correspondent, "Quod Erat Demonstrandum," who seems to me to give a quite unreasonable amount of prominence to the case under discussion.

Among English businesses there are only a few which would or can attract German chemists, and these have been always, and will ever be, in the hands of people of that nation. The reason of the association of the Teuton with these businesses will be found in the fact that the customers are German-speaking, so that the whole routine of the daily duties could almost without exception be gone through by those absolutely ignorant of English.

That the Preliminary examination is probably the most trying for the German candidate there can be little doubt: but its difficulty lies not in the standard of excellence required in the various subjects, but in the main character and genius of the examination itself. It makes it essential for the German student to "hark back" to his juvenile days, and get up a precise acquaintance with subjects which are laid before the expanding intellect of youth not so much because of their intrinsic value or importance, but principally as factors in mental training.

In the particular case adduced, the business which the applicant desires to conduct is purely German in character, and this being so, can any just reason be brought forward why the Preliminary examination should not be discarded upon the evidence of sufficient testimony to the soundness of the education required? Your correspondent seems to be partly ill-informed and partly misleading. Although the German "gymnasia" are doubtless of higher scholastic rank than the "Realschule," yet it is in the latter that English is more thoroughly taught. In the former institutions more prominence is given to the classical languages, Latin and Greek; English is an optional subject, and one by no means frequently taken up.

As to the quotation from the Pharmaceutische Zeitung, your correspondent makes it appear, intentionally or unintentionally, that the views expressed are those of that paper itself. Such is, in fact, not the case, the passage conveying merely an individual opinion; and even if I myself do not agree in all particulars with the writer quoted, I am not the less convinced that in certain circles of English pharmacy higher education is still much wanted. This part of the

letter, however, is quite ex parte. With regard to the retaliation that foreigners are not admitted into German pharmacies under similar conditions, I need only point out that this results not from a conservative spirit in the German society corresponding to the B.P.S., but from the fact that pharmaceutical legislation is purely and entirely Governmental, whence no exceptions to the regular methods of procedure can be made by the society referred to, even if it were so desired.

That it is not anticipated or hoped by the Germans that they will be able to "invade England" and ruin "whole branches of industry" (to use "Q. E. D.'s" hysterical terminology) may be inferred from the following extracts from

e of my "Briefe aus England," which your correspondent

pears to have overlooked :--

Numerous applications are constantly reaching me as to be one can obtain a situation here, and particularly whether chiplaces are to be come at. I am almost always comlled to give the unwelcome advice not even to make an fort to find such a berth. . . If I, however, ventilate the testion, Can a place in an English pharmacy be successfully and by personal search in England? I am obliged to give a gatire as regards the great majority of cases, though the ssibility of chance exceptions is not excluded. . . . Touchit; the final prospects of the 'deutsche Apotheker' who my have the intention of establishing himself here for the ture, it cannot be said that they are exactly seductive. . . . Is quite impossible for a German 'apotheker' to pass the alifying examination and open a business without having reviously had a sufficient amount of training in an English rarmacy."—Pharm. Zeit. May 19, 1888, pp. 295 et seq.

In conclusion, I may express my astonishment that such ipportance should be attached to the particular case introdued by your correspondent, since similar exemptions have by previously granted without any such public exhibition

onational prejudice and puerile indignation.

Yours very truly,
LONDON CORRESPONDENT.
(Pharm. Zeit.)

L'Affaire Dunstan.

IR,—As I ventured to anticipate last week, the consideration of my letter by the Council does not seem to have been bright very prominently under the notice of the reporters, thigh the fact that it was considered is proved by my recipt of a letter from the secretary, stating that the letter wi "ordered to lie upon the table," whence it has probably log ere this gravitated to the Pharmaceutical Society's

wite-paper basket.

s the Council therefore declines to take any steps to chrits character, we can only conclude that it—or, at any ra, some portion of it—was aware at the time of the annual ming that its spokesman was, even if telling the truth, ceainly not telling the "whole truth" with regard to "Iffaire Dunstan," and much as we must admire the miner in which the Council has read, marked, learned, and in rdly digested the fable of the bundle of sticks, and, merover, practically applied the moral to its own affairs, I, r one, can only regret that the slur of having supplied microling information must attach, by its own action, not on to those Councillors or officials who probably were, but als to many whom I firmly believe were not, acquainted with the real facts of the case.

is also surprising that the Council does not recognise the act that an apology is, as an ordinary act of courtesy, due to the members for the unsatisfactory nature of the reply give to a question asked at the annual meeting; and I fear its chaviour in connection with this matter will seriously detect from the value placed on the explanations vouchsafed by the President and Council to their constituents on these occions, and tends to emphasise the fact which has unfor nately become only too apparent, viz., that the Council's onl desire in attending this compulsory gathering is to hur this formal business over as speedily as possible, and not as I consider should be the case, to listen to the opinions antivishes of the members of the Society, or to benefit by any emark or suggestion which may be put forward with a vier to improving the working of the establishment in Blo nsbury Square, in whose welfare the humblest member of the Society may feel as great an interest as does any individual possessor of a seat at the Council table.

T: indifference as to whether the students get the assistant for which they pay their fees is also sadly calculated to less the number of entries in the Society's schools—a fact all the ore to be deplored from the really great improvements whill are projected in the arrangements for next session; and here again it is to be regretted that the Council is unae to answer that it has secured the first claim on Pro sor Dunstan's services, and that it intends, whatever englements he has chosen to enter into elsewhere notwithstating, to keep him up to his work at the Square.

I ill not trespass upon your valuable space further than to tink you for your kindness in allowing this important

matter to be so freely ventilated in your columns, and consequently brought so fully before the members of the Society notwithstanding the efforts of the Council and the powers that be at Bloomsbury Square to keep them in the dark on the subject.

I am, sir, yours, &c,

42 Castle Street East, W.

EDWARD H. STOREY.

[With this letter we presume the incident is closed, but it will not be easily forgotten. It is not necessary to use any strong language, but we cannot refrain from expressing our surprise that all the members of the Council should have associated themselves with their President in the unfortunate attempt to hoodwink their constituents. We have had several proofs that the gentlemen on the Council are utterly unsuited for diplomacy (we intend this as a compliment), and this last failure of theirs in that line ought to impress the lesson on their minds. The lesson for the members themselves to draw from the little history is too obvious to need enforcement.]

The Walthamstow Case.

SIR,—Permit me to ask old Yorkshire, Liverpool, Westcnd, and South-Coast friends not to allow me to be confounded with my unfortunate namesake. There are so few of us in the trade with the same surname.

With thanks, yours truly,

Pau, France, August 8. EDWARD ANDERSON BARBER.

The Charge against Mr. Gower ignored by the Grand Jury.

SIR,—Will you kindly insert in your next issue, in justice to myself and the profession, that the grand jury yesterday, at the Clerkenwell Sessions, threw out the bill against me for indecently assaulting a little girl, and also that, had the said grand jury returned a true bill, we had a perfect answer to the charge, and could have conclusively proved that the said charge was brought without the slightest foundation? Yours faithfully,

113 The Grove, EDWARD THOMAS GOWER. Hammersmith, August 8.

Chlorodyne Formulæ.

SIR,—You have done good service in tabulating the various formulæ for chlorodyne, thereby showing at a glance the deplorable variations in composition and strength. The importance of the subject induces me to make further remarks regarding it. I would suggest that preparations of a strength similar to the one given on page 94 of the current CHEMIST AND DRUGGIST be called by some other name than "Chlorodyne." The original preparation is the one the physicians and the public are most familiar with, and it would be quite reasonable on the part of any one of them to use any compound labelled "Chlorodyne" in the manner directed on the label of the original article, viz.:-" From twelve to sixteen years—from ten to twenty drops. . Adult dose: From ten to thirty drops in water, to be renewed every three or four hours until relief is effected." My experience is that when chlorodyne is ordered by a physician, he generally merely tells the patient to get it, and to take so much (as a rule, from 20 to 30 drops) for a dose. Consequently it is our rule to sell and dispense what is practically, at least, acknowledged to be the genuine "Chlorodyne," viz., J. Collis Browne's, and I would strongly advise others to do the same. It is a trite remark, but I would repeat it, Do not risk too much for the sake of elegance.

Yours, &c., EDINA. (107/45.)

Is a Forward Move Possible?

SIR,—Among the topics suitable for the most earnest consideration of the B.P.C., I venture to say that there is one which would awaken the interest of every chemist who has a personal interest in the trade, but which is not included in the list you have published. It is this—How best to bring before our customers, the British public, the present anomalous position of the drug trade. We are professors of a business

that demands fair education, an examination-licence, and a standing of confidence and respect in the community. Yet we are handicapped by retailers on every side. The craze for cheapness has attracted the enterprise and capidity of men who enter the avenues of our trade on every side but the sale of poisons. Is it possible to arouse the conscience of the nation to the magnitude of the injustice? Provided this be possible, can we organise ourselves so as to bring the whole moral force of the trade to bear upon our Parliamentary representatives, to induce them to schedule all purely medicinal articles, and to restrict dealing in such to chemists only?

Educate, organise, and schedule. Can we do this?

Yours truly, HEDER. (109/13)

Pharmaceutical Counsellors.

TWAS Night:-

The druggist had gone with his wife to bed, Had ceased awhile in the battle for bread; The tincture bottles had made their bow To the ointment jars on the shelf below; Deep darkness stole o'er the varied stock As midnight struck from the neighbouring clock. When lo! at a preconcerted call, The tools of the druggist assembled all: They met to find in a friendly way A cure for the trials they bore each day. And Mr. Pestle, as a sober wight, They voted should take the chair that night: Who, standing upright on his stony-seat, Declared he was glad his friends to meet. "I think you'll agree with what I say, To do our work we must pound away. The scale here rattled its brazen pan, And giving a cough it thus began: "My friends, you may pound away at will, And yet be far from your object still. Of this I am sure, 'tis a capital plan To weigh your words in the balancing pan." A dapper measure was seen to try Some means of catching "the speaker's eye"; But failing, gave vent to a loud "hear, hear," In a not unmusical voice and clear; "Those arc my sentiments just to a T, With Mr. Scale we must all agree." The crucible here seemed ill at ease, This logic had utterly failed to please; In fact, it had only raised his ire, His sides seemed glowing with latent fire. So, making his bow to the worthy chair, "He wanted the ease to be stated fair. To clear the gold from dross and mire, There's nothing excels the test of fire. And so they played at this merry game, The speakers were more than my pen cau name; There were many pros and many cons, Like battles royal between "the dons"; Each had his own and certain cure, "If 'twas only followed, success was sure." Like correspondence I often see In the "letter" column of the C. δ D. And so it fell, the very next day, Each tool went on in its wonted way; Each filled its sphere, though it were but small, That made up a daily perfect wl ole. And so they filled up the owner's till By doing their work at his own sweet will. July 23, 1888. SODA CARB.

The Pharmaceutical Society and Cutting Prices.

SIR,—Can anyone furnish a forecast of the Pharmaccutical Society, and need any fears be entertained for its stability through lack of adherents? It seems to me that the past and present aspects of pharmaceutical life in this country justify an observation of this sort. What is the Pharmaceutical Society, setting aside the mandate it holds of the State, which for the present purpose is irrelevant? It is a chartered body organised for the purposes (a) of building up chemists and druggists in a knowledge of the subjects asso-

eiated with their calling, and (b) of extending support to any pharmacist who may stand in need of a helping hand. The query whether it has justified the anticipations of the founders and those who attached themselves to it in later years is best met by pointing to its halls in London and Edinburgh, and to its forty-nine annuitants. Whatever the advantages attaching to the modern principle of business may be, it has one quality which, if I mistake not, will exert a mischievous influence on the welfare of the Society. It has not yet met with unqualified approval, it is at once recognised and ignored. It is this partial recognition wherein lies its badness; one pharmacist charges 4s. 6d. for a proprietary article, while his neighbour is contented with a price which defrays the original cost and leaves only a slender margin. It was this breach of trade etiquette which "struck the note of discord," impaired personal friendship, and deprived the whole pharmaceutical body of much useful purchase. It was this breach which the bystander (I speak not without regret for him) has so often and so erroneously construed into negligence on the part of the Society; and as long as this anomalous condition of things continues the prospects of the Society must be comparatively barren, and its adherents dwindle, or their number remain stationary. Indeed, it can hardly be otherwise; there cannot be unity of purpose manifested out of doors while there exists no general consensus of opinion within, on a matter far more vital to the individual than abstract pharmacy can be. How can any steady-going pharmacist identify himself with me, who have adopted the new rule of business, and am consequently supposed to be set on the road to high estate, while he who has kept to the old methods may have lost his fortune? If he can I beg pardon of your readers for thinking too poorly of our common humanity. Whatever the destiny of the Society may be, it will be found to have been largely controlled by causes akin to these. Very much depends upon the attitude of the individual, upon his good or ill estate; as his prosperity so shall the strength of the Pharmaceutical Society be; nor can it be otherwise seeing that it is an outgrowth of the pharmaceutical body. This being so, I do not think that anyone can regard the past and present aspects of the new movement without discovering both that the Society could not have averted this present state of trade, and that its attitude in relation to it provides little ground for resentment. Many pharmacists have recognised this and have met their losses with an admirable equanimity, contending that it was impossible to resist the popular cry for a "revision of prices," a cry which originated with the people, and had at its back the force of public approval. It is, however, this condition of the trade which threatens the stability of the Pharmaceutical Society, and not till the new system meets with universal approval will pharmacists recover their lost property and the Society see good days again. So long as the new system is approved only by one here and another there, attachment to the Society and interest in its interests will dominate. We cannot blame the pharmacist who adopts the new course; he is only doing as others do, he is "going the way the world is going." But it will be lamentable if the ultimate effect should be that a society founded on liberal principles, and which has given by its example and by its munificence a great impulse to learning, should have to publish a longer register and a shorter calendar each succeeding year. I am, sir, yours obediently,
W. PUCKEY. Ramsgate.

Fixed Glass Stoppers.

SIR, - Your correspondent "Cymro" must try what mechanics will do for his fixed stopper. I have found the following plan most effectual when other methods have failed, but it can only be tried in those stoppers which have a shoulder on each side of them, or something like a shoulder. Obtain four thin *rery dry* deal wedges, place two of these (reversed) on each side of the bottle between the stopper and the top of the bottle, and slightly hammer them tight; now wet them, and in a short time the stopper is bound to move. W. H. C.

DR. MOY TOY YON, the pioneer Chinese pharmacist of Chicago, recently died in that city. Dr. Yon laboriously filled for many years the functions of physician, pharmacist, and laundryman out yonder.

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this keading.

Dispensers who have compounded any of the following prescriptions, or similar ones, are requested to communicate their results to the Editor.

Vascline (65/106) would like the opinion of readers on the pest method of dispensing the following:-

	Ext. belladon.	 • •	••	 	3 88
	Mucil. acac.	 ••		 • •	5vj
Tere b	ene et adde				
	Ætheris	 		 • •	Зij.
M.	. Ft. paint.				

Assistant (65/106) would be grateful if readers would sugest the most satisfactory way of dispensing the subjoined, s he gets a most unsatisfactory result:-

Ext. conii				 	gr.	Υ.
Acid. tannic				 	23	X
Glyco gelatin	q.s.	ut ft. p	essus.			

This prescription may be satisfactorily dispensed by the llowing process, which must be exactly followed if a transarent article is to be obtained:—Rub the extract down with little water, dissolve the gelatine in water with some glycene at a water-bath heat; dissolve the tannin in glycerine id add to the warm solution of gelatine. Evaporate to the cessary consistence (as indicated by the character of a poled drop), and then add the extract and mix all together.]

A. D. (3/109) asks what is the test method of dispensing is :--

Acid. carbolic	 	 	gr. vj.
Pil. assafæt, co.	 	 	", XX.
Ol. cajuruti	 	 	B, vj.
Pulv. valerian.	 	 	q.s.
. til. vi.			

Turpentine Pills that will not Fall.

In answer to 104/38, X. Y. Z. sends the following forula :-

	Ful. resinæ (am)	er c	olour)		 	Зij.
	,, gum. acacia	е			 	3.
	Proof spirit		• •	• •	 	5ii
(i)	and roll.					

Sometimes they require a little warmth whilst rolling.

"Norwich" submitted the following pill query last week:-

Acid. carbelic. pur.					gr.	j.
Ext. alces Secot. aq. *					19	j.
Fil. galban. co	• •		• •		,,,	
Ext. colec. co	• •	• •	• •	* *	,,	1
Fi nil i (arc)						

U. F. (27/107) says a good way to dispense the pill is to 10 up the carbolic acid with about | grain of yellow wax, t n add the other ingredients. The powdered extracts of a es and coloc. co. should be used. By this means you get a ood firm pill. The pills should be sent out in a bottle.

This pill is easily dispensed by using the pil. galbani co. at ext. coloc. co. in powder. The addition of 1 grain of litorice powder to each pill makes a fairly good mass, which sluld stand an hour before it is cut.

Yours respectfully, BOSTONIAN. (110/47.)

Non-Professional Hieroglyphics.

Ve have a communication in reference to the prescription which we published a facs mile on July 28 from Mr. C. of the poor.

Clark, of Cardiff, who says that he dispensed it sometimes a dozen times a day when he lived "up the hills," for a man known as "Owen the Glyn" (quack). He says it should read as follows:-

```
Spirits spike
Sweet spirits nitre
Tinct, steel
Sulphur of milk ..
                          .. 4 drachms
```

Half to one teaspoonful in gin two or three times a day. Shake bottle.

The Concentrated Mixture.

SIR,—It is possible to dispense this, in a modified form, by extemporising the spirit with water instead of S.V.R. and by making the tincture with half water. Then make the bulk so that one teaspoonful should contain one dose instead of two. Yours truly, HEDER.

SIR,—I was unable to dispense the concentrated mixture as it stood. By the following method I obtained a mixture exactly one-half the strength of that prescribed:—Dissolve the ferri ammon. cit. and potass bromid. in 3 oz. of water, the tinct. nucis vom., and spt. ammon. aromat. Then add 1 oz. of water; the volume of the liquid is increased by the addition of the salts. After standing a short time it separates into two distinct layers, but is perfectly homogeneous when shaken up.

Yours respectfully,

BOSTONIAN. (110/47.)

LEGAL QUERIES.

10/60. Sunshine.—A German house sending acknowledgment of money received from England need not use an English receipt stamp. He is not under the jurisdiction of England. If he wants to sue he must do so in England. A foreign court could not enforce its decrees in this country.

18/105. Enquirer.—A similar question to yours was answered last week in this section.

56/106. Juvenis.—It is illegal for any person not licensed for the sale of spirits to sell pure spirit, whether he describe it as medicated or not. The Board of Inland Revenue will permit chemists to sell 8 oz. of pure spirit at a time to medical or scientific gentlemen for medical or scientific purposes, but this permission must not be abused. No person unlicensed by the Home Office may manufacture coloured fires, and Colonel Majendie has informed us that a chemist's shop would never be accepted as a suitable place to be licensed for such operations. The penalties for infringement of either of these regulations are very heavy. The owner of the business would be the person liable to them, unless he could prove that the transactions were not carried out by his direction or with his cognisance.

27/109. T. says: - "B has been managing a drug house for ten years or so, during which time he has introduced several preparations of his own, given them fancy names, and sold them in the name of the firm. If he were going into business for himself, could he advertise them by their present names as herotofore prepared by him for the firm he was managing for, or should be have the names registered? If the names cannot be registered, what had he better do? He holds the recipes." [Unless he has specially reserved the property in those names to himself, a court would most likely hold that they are the property of the firm who have defacto sold them. If B were to try to register the titles, the firm could probably successfully oprose such registration by him. B can undoubtedly make the same articles, but it will prooably be wiser on his part, and it will certainly be safer and more honourable, that he should not seek in any way to undermine his past employers in respect to the titles.]

40/109. J. F.—Neither pharmaceutical chemists nor chemists and druggists are exempt from service as overseers

MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for formulæ which have already been published in this journal. It is not fair to more eareful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 4d. each.

64/100. Monocarbonate of Ammonia.—Break into small pieces volcanic-carbonate of ammonia (ordinary sesquicarbonate), put into an air-tight jar and pour on it half its weight of liq. ammon. fort. sp. gr. '880, suitably perfumed. It should be kept for two or three weeks, tightly covered, but stirred occasionally with a spatula. This is Allchin's process. After we published this on a previous occasion "Heder" wrote to say that his experience of the article was that it was not worth keeping. He prefers to fill bottles with small pieces of ammon. carb. (rejecting the powder) and moisten with perfumed liq. ammon. fort. His customers say that his smelling salts last longer than other people's. A good perfume for the ammonia is made from the following formula:—

Ol. lavand, Ang.	 	 	3iv.
Ess. moschi	 	 	ãi⊽.
Ol. bergamott.	 	 	3ij.
Ol. earyoph	 	 	5j.
Ol. cinnam	 	 	gtt. v.
Otto rosse	 	 	gtt. x.

Misce.

5/275. Bayberry. — Composition Essence. — Bayberry root bark, 3 oz.; ginger, 10 drachms; cloves, 4 drachms; capsicum, 1 drachm; carbonate of potash, 15 grains. Having coarsely powdered the drugs, put them with the potash in an infusion jar. Add 15 cz. of boiling water and infuse for two hours; then add 4 oz. of glycerine, digest for a day, filter, and add 1 oz. of rectified spirit. The product should measure a pint.

33/107. Walsall.—Powder for Sweaty Feet.—Powdered starch, 2 oz.; fuller's earth, boric acid, and powdered orris, of each 1 oz. This is a powder which may be recommended to persons who suffer from tender or perspiring feet.

40/274. Facta non Verba.—Carbolic Tooth-powder.—

Precipitated cha	lk	 	4 oz.
Carbonate of ma	gnesia	 	3 ,,
Powdered soap		 	1,
Carbolic acid		 	20 grains
Camphor		 	20 ,,
Oil of wintergree	211	 	3 drops
Rose pink		 	0.8.

Tint the rowders with the rose pink and incorporate with the other ingredients, previously rubbed to a fluid in a mortar. Sift.

51/107. Ann Theridia.—You will find experience and advice respecting the Major examination in this journal, September, 1885 (monthly), and February 11, 1888.

Insecticide for Plants.

For killing green and black fly, red spider, and other insect-pests on plants:—

Terebene	 		• •	 Зij.
Saponis mollis	 • •			 3iv.
Spt. vini meth.	 • •	* *	• •	 3⊽j.

Mix 3j. to Niv. with 1 gallon water, and either dip plant into the mixture or apply by means of a syringe or spray diffuser.

Vary the strength of the mixture according to the kind of insect required to be removed. Quite harmless.

Musselburgh, August 3. DAVID S. ANDERSON.

9,109. Soda Water.—We do not think a general discussion on the cost of aërated-water plant can be necessary, seeing that exact particulars and abundant information can be obtained from any of the manufacturers of such machinery.

Messrs. Burrell & Son, Montrose, ask:—"Would any obliging correspondent suggest a mode of colouring show-bottles—8 gallons, on side brackets—without having to fill them with watery solutions? Has anyone ever tried a coloured transparent disc painted on back and front of the bottle?"

19/109. W.—Mahogany Stain.—One of the following formulæ may suit you:—Boil together 1 lb. madder and $\frac{1}{2}$ lb. logwood in 5 pints of water for an hour. Filter, and apply to the wood (already warmed), while warm, with a sponge. The colour can be darkened by applying afterwards a solution of carbonate of potash (1 drachm to 1 pint). (2) Digest 1 oz. powdered turmeric and 1 oz. powdered dragon's blood in 8 oz. strong alcohol until a sufficiently deep colour is obtained. Filter, and apply warm. For Black French Polish "A Practical Man" recommends the addition, to a pint of the best polish, of a tablespoonful of very finely-ground ivory-black and as much indigo as will lie on a shilling. His book on "French Polishing" (published by Wymans) would probably be of service to you.

54/109. Fleming's tincture of aconite should be made by digesting 16 oz. of aconite root with 16 oz. of S.V.R. and afterwards percolating with spirit up to 24 oz. The strength, therefore, of Fleming's tincture would be more than five times that of the B.P., if the root were perfectly exhausted in both cases. One part of Fleming's tincture to four parts of rectified spirit should yield a tincture of about B.P. strength.

32/109. Celyn writes:—"A lady has had a skin tanned, but it smells disagreeably, arising, she thinks, from the tanning. Can you suggest anything to remove that unpleasantness?" [Sanitas would be the safest deodorant to try first. If that is not successful a chlorine solution, such as Burnett's, would perhaps answer, but it should be tested first on a small piece to see if it would injure the skin.]

57/109. J. B.—We do not find that anyone has ever attributed any medicinal virtue to the bicarbonate of strontium contained in Vichy water. The proportion does not exceed $\frac{1}{4}$ to $\frac{1}{3}$ of a grain per gallon. According to Dr. Lauder Brunton, the physiological effect of strontium is a gradual contraction of the blood-vessels, but we do not know that its use has ever been recommended in medicine.

6/106. R. F.—Cryolite is a double fluoride of aluminium and sodium, found largely in Greenland, and employed in the manufacture of alum and of metallic aluminium. Phenol sodic is a formula of the French Codex, and is most likely what you mean by phenol sodique. Its formula is phenol (carbolic acid), 70 grammes; caustic soda, 30 grammes; water to make 1 litre. Phenol sodique strictly means carbolate of soda, and is made by mixing and evaporating in a porcelain or iron vessel 100 parts of soda lye, sp. gr. 1.333, with 70 parts carbolic acid.

38/109. Minor.—Many anhydrous substances form crystals, e.g. sulphur, bismuth, &c.

35/109. J. D.—We do not know the nature of the particular hair preparation you name, and therefore cannot tell what kind of a formula to give you.

17/109. A. O.—Naphthalin is one of the most effectual applications to drive away moths. A solution 1 in 10 of spirit may be sprinkled about the store or sticky paper to which naphthalin is attached may be laid about. An old-fashioned remedy is mercury. One part of mercury is rubbed with 2 parts of gum arabic, a little ether being used to reduce the metal. This powder is smeared on gummy paper and laid about.

TINCT ACONIT.

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VITRIFIED (burnt in) LABELS

(Black Letters on a ground of Pink or White Enamel).

Labels indestructible and of elegant appearance, forming an even surface with the glass or porcelain. The Jars of beat porcelain, thoroughly greaseproof. The Bottles hand-made and of superior quality. Both are unsurpassed by anything in the market in every respect. Also a CHEAPER sort of Bottles and Jars, with labels equally indestructible, but very plain, especially suitable for Dispensaries, &c. Intending Buyers are requested to inspect Samples at

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4 CREECHURCH LANE, LEADENHALL STREET, E.C. (late of Sugarloaf Court)

A large number of Shys have been fitted up with these Bottles and Jars, both in England and the Colonies, a list of which can be had on application,

LATEST NOVELTIES:

POISON BOTTLES of Ribbed Blue Glass, with RAISED White Vitrified Letters, and the Word "Poison" in Red at foot.

DRAWES LABELS of Crys'al Glass, with Bevelled edges and Vitrified Labels to match the above Bottles and Jars.

STANDARD LIST OF LABELS for Chemists' Shop Bottles, Jars, and Drawers will be sent free on application.

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TO FORM ANY NAME, WITH EVERY 1/BOTTLE
HIS USEFUL GIFT CONSISTS OF TWO SETS OF INDIA RUBBER ALPHABETICAL LETTERS
AD, & HOLDER WITH ENLARGED 1/BOTTLE OF MARKING INK. — SEE YOU GET IT.

Unprecedented success. Large and increased sale.

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Order sample doz. We guaran-tee most satisfactory result, and repeat order.;

WORKS-75 SOUTHGATE ROAD. LONDON, N.

SPECIAL LIST. ntipyrin (5 grs.)... ... In each drachm *Bismuth and Iron ... In each drachm ismuth and Pepsine ... (4 grs.) (4 grs.) ... *Bismuth, Iron, and Strychnia (4 grs.) (4 grs) ... (4 grs.) (4 grs.) $(\frac{1}{60} \text{ gr.})$ smuth, Pepsine, and Quinine ,, *Iron and Arsenic 4 grs) (4 grs.) (1 gr.)(4 grs.) 3 mins. (Fowler's Solution) ismuth, Pepsine, and Steel *Iron and Pepsine 4 grs.) (4 grs) (4 grs.) (4 grs.) (4 grs.) Ismuth, Pepsine, and Strychnia *Iron, Quinine, and Strychnia 4 grs) (4 grs.) $(\frac{1}{60} \text{ gr.})$ *4 grs.) (1 gr.) $(\frac{1}{60} \, {\rm gr.})$ ismuth, Iron, and Quinine... Iron, Quinine, and Pepsine... ,, 4 grs.) (4 grs.) r.) ... , (4 grs.) (1 gr) (4 * The Ammonio-Citrate of Iron is used in these preparations. (1 gr.) ... (4 grs.) ...

They are supplied in any quantity, from 2 oz. upwards.

Note the name, BISHOP, on the Seal. AND the Registered Trade Mark on the Label.

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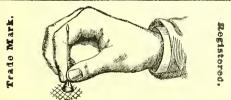
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Destroy all Handbills Issued Prior to this Notice

hat have reference to Royal Balsamic Plaisters. As II future Handbills will bear the date of issue at the ottom, it will be understood that all Handbills as lave no date thereon must not be used. It is hoped hat retailers will render assistance to prevent further roceedings by their compliance with the terms of his notice. It may be observed that the Stamp on he back of the Plaisters is in accordance with the Provisions of the Act of Parliament.

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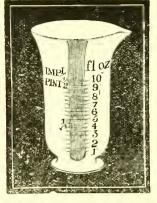
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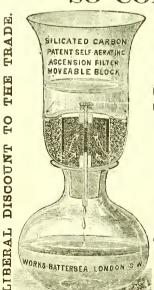
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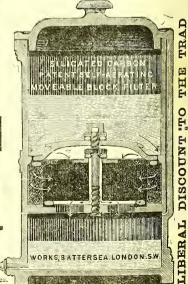


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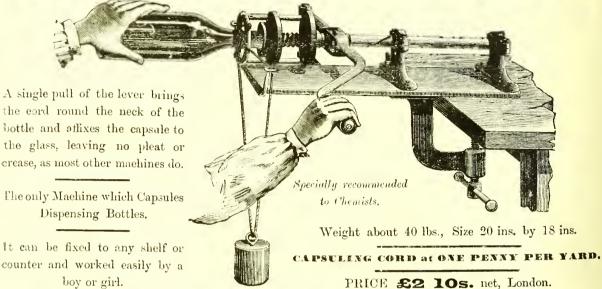
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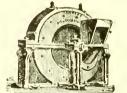
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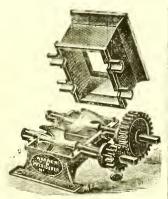
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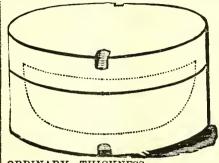
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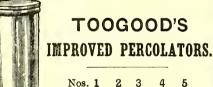
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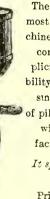
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JUNE 1, 1888.

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Editorial Notes:—"Acetic Acid and the Sale of Poisons Act, N.S.W.," "Prescribing by Chemists," "Opium Smoking," "The Dental Act, Victoria."

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New Zealand.—Pharmacy Board of New Zealand: Report of Meeting.

South Australia.—Report of Monthly Council Meeting.

Victoria.—Pharmacy Board of Victoria, and Pharmaceutical Society of Australasia: Reports of Meetings.

Letters from our own correspondents in Sydney, Auckland, Brisbane, Adelaide, Hobart, and Launceston.

Students' Corner—Trade Notes—Literary Notes—The New Mineral Springs of Victoria—The Preparation of Olive Oil in the United States—Poisoning Cases, &c., &c.

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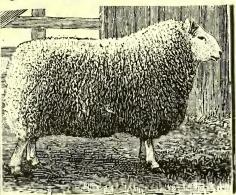
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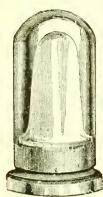
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REPORT

COLEMAN'S LIEBIG'S EXTRACT

MALT WINE. MEAT AND

By FRANCIS SUTTON, Esq., F.C.S.,

Public Analyst for the County of Norfolk, &c.

FRANCIS SUTTON, ESQ., F.C.S., | NORFOLK COUNTY ANALYSTS Analytical and Consulting Chemist, Author of Hondbook of Volumetric Analysis, Chemist to the Norfolk Chamber of Agriculture, Gas Examiner for the City of Norwith.

OFFICE,

LONDON STREET, NORWICH, July 25th, 1888.

I hereby certify that I have made an exhaustive analysis of the Meat and Malt Wine prepared by Messrs. Coleman & Co., Limited, Norwich, with a view to determine chiefly whether it really contains an appreciable quantity of Meat Extract, and whether it is entitled to be classed as a suitable dietetic stimulant for invalids. The result of my analysis proves that it does contain a suitable proportion of all the most valuable principles continued in Lieony's Ex ract of Meat. It is well known to physiologists that this extract is not valued for the ordinary albumenoids (such as gelatine and albumen), which are, indeed, excluded to a large extent by the process of manufacture, but that its chi-f value, as shown by Baron Liebig himself, consists in its containingthrse essential principles peculiar to flesh, and which have a remarkable restorative power over the nervous system of invalids, thus rendering Liebig's Extract famous. In addition to these valuable substances the wine also contai's a considerable quantity of Malt Extract, which is also well known an appreciated as an excellent restoraitee in cases of debility.

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As witness my hand,

(Signed)

FRANCIS SUTTON.

Public Analyst for the Coun'y of Norfolk, de.

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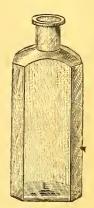
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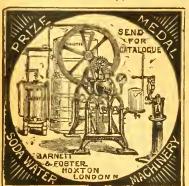
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Angust 7, 1888.

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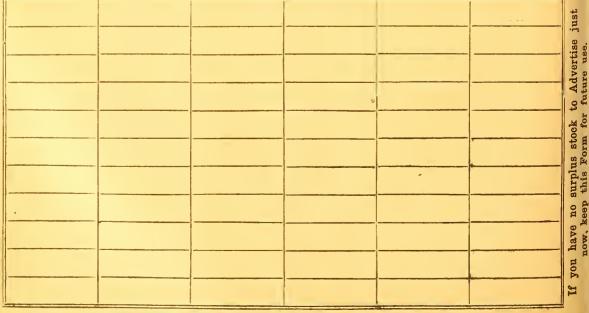
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